

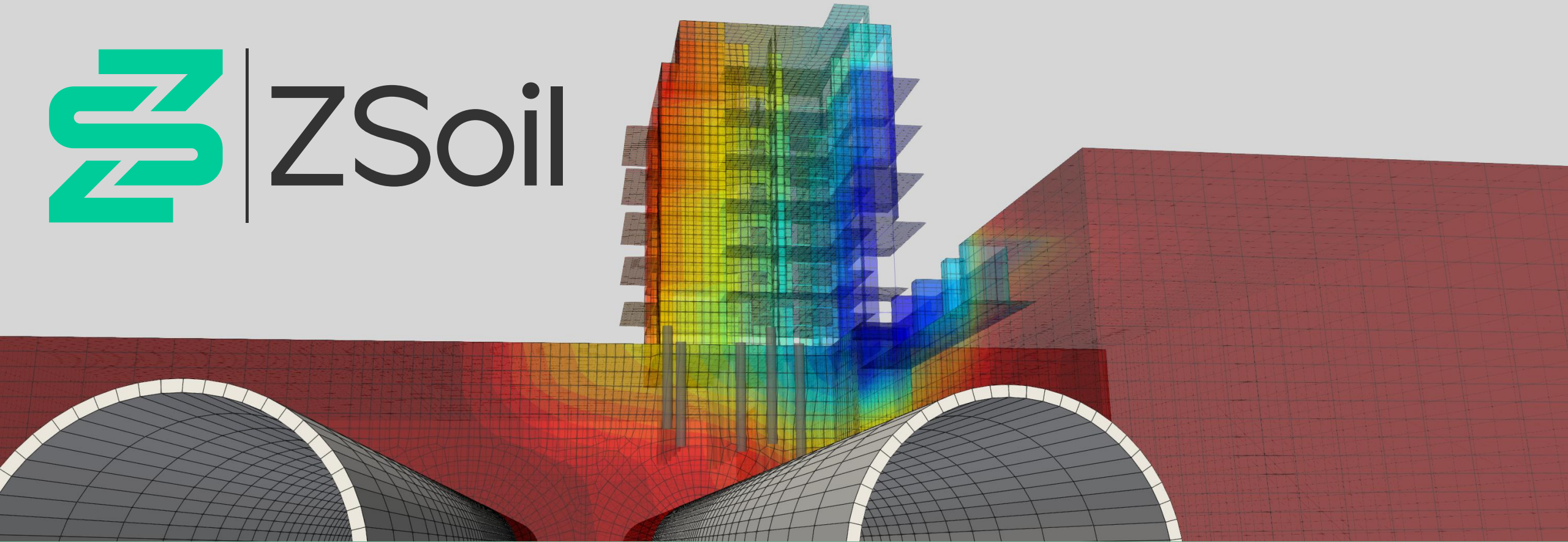


FOR GEOTECHNICS & STRUCTURES

S I N C E 1 9 8 5



ZSoil



ZSgeosite features and capabilities Presentation of the β version

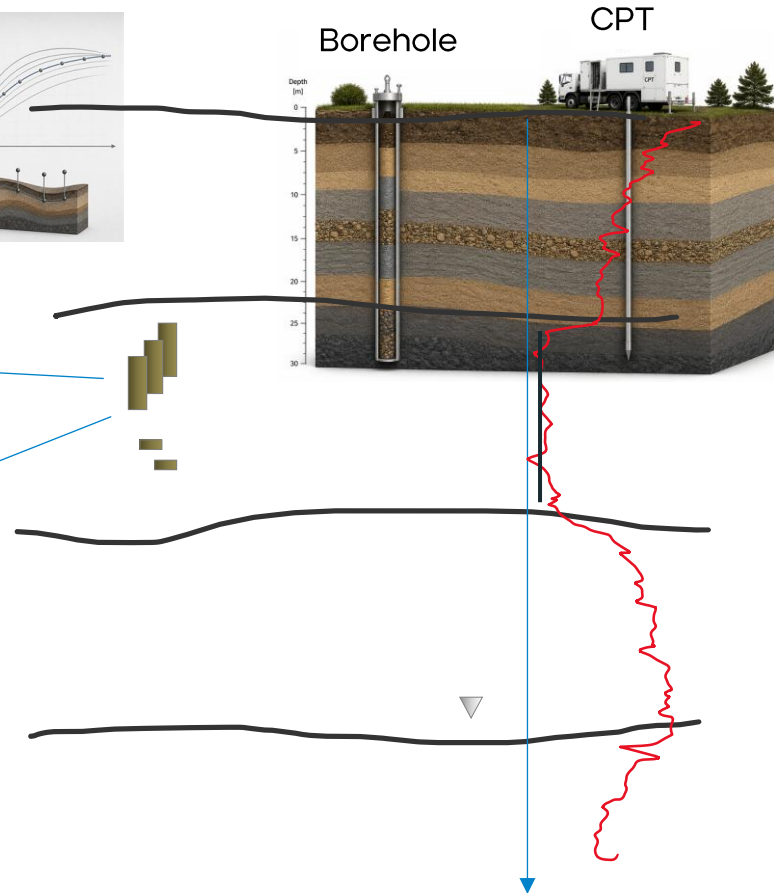
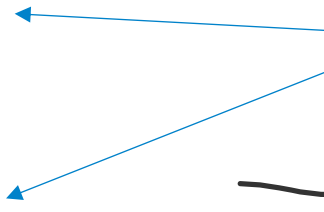
Karol Dziedzic & Rafal Obrzud

Introduction

From Virtual Lab

interactive tool for assistance in parameter selection for constitutive models for soils

- ✓ Designed for parameter determination of a single soil layer
- ✓ Automatic/interactive parameter determination based on handbook correlations (macroscopic soil description)
- ✓ Parameter identification based on laboratory test results
- ✓ Testing of constitutive model response in laboratory test conditions



to ...

ZSgeosite

interactive tool for assistance in development of spatial geotechnical models and constitutive parameters for FE analyses

- ✓ Spatial site investigation
- ✓ In situ test-based profiling accounting for laboratory test findings
- ✓ Multi-layer parameter identification for constitutive models
- ✓ Generation of spatial geotechnical model for FE analysis
- ✓ Evaluation of parameter variability for probabilistic analyses

Objectives

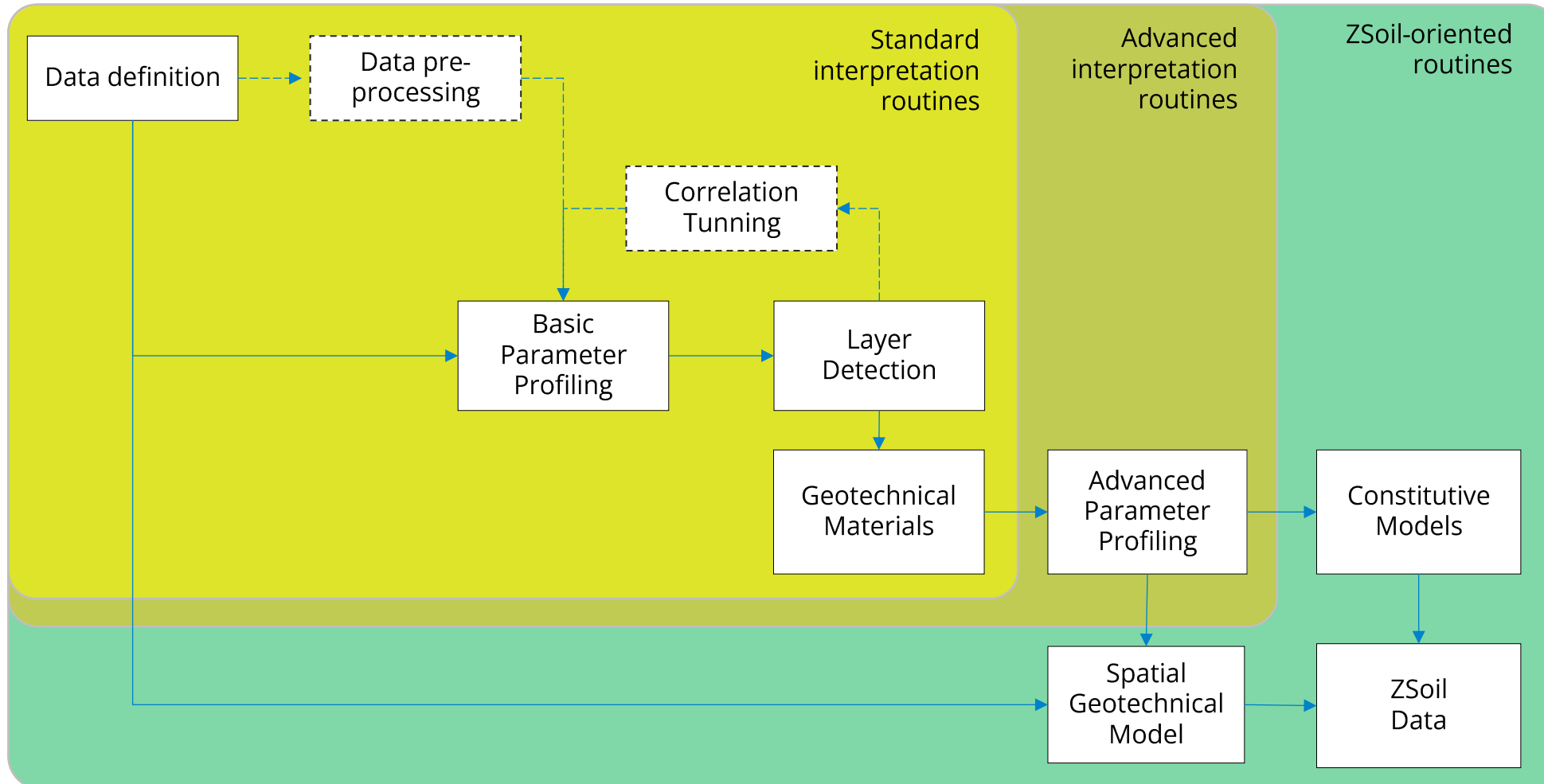
Integrated workflow from site investigation to FE modelling

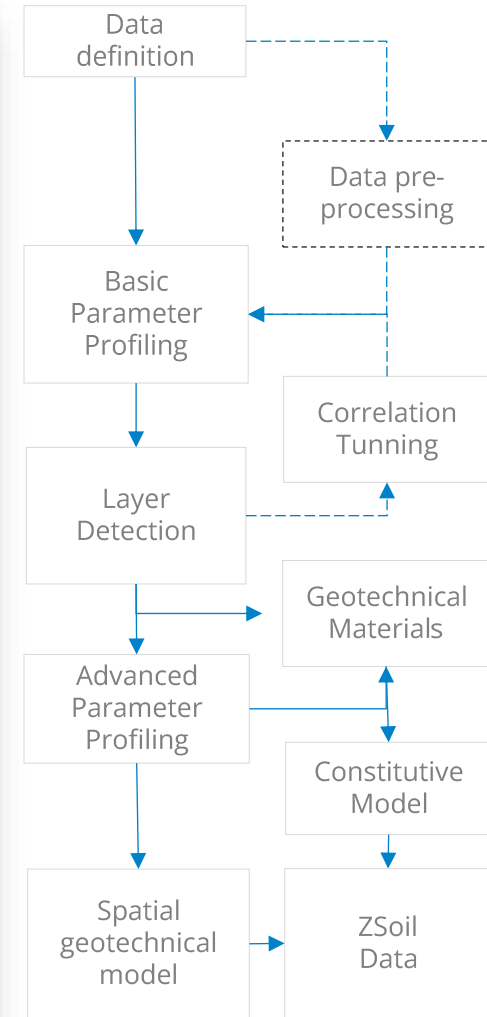
- Advanced tool for treatment and analysis of *in situ* measurement
- Advanced interpretation of data provided by
 - Borehole logs
 - CPT continuous records
 - DMT semi-continuous records
 - and others (in the future)...
- Typical geotechnical interpretations for geologist and geotechnical engineer, and reporting
- Preparation of geotechnical model for the FE analysis
 - ZSoil compatible boreholes (logs in the model space)
 - Assistance in parameter definition for advanced constitutive models in ZSoil

ZSgeosite

Framework

ZSgeosite – General workflow





Data definition

Boreholes and Soundings

Workspace 3D View 2D View +

Boreholes / Soundings

Test hole type All Add Edit... Copy Delete Up Down

	Label		Device	Local X [m]	Local Y [m]	Local Z [m]	Comment
1	DMT 2	Borehole	DMT 1	14.000	-2.000	0.000	
2	DMT 2 + REF	Sounding CPT	DMT 1	16.000	-2.000	0.000	
3	DMT 2 + GWT	Sounding DMT	DMT 1	18.000	-2.000	0.000	
4	DMT 4	Sounding DMT	DMT 1	2.000	-15.000	0.000	
5	DMT 8	Sounding DMT	DMT 1	14.000	-28.000	0.000	
6	CPT 1	Sounding CPT	CPT 1	0.000	0.000	0.000	
7	CPT 2	Sounding CPT	CPT 1	16.000	0.000	0.000	
8	CPT 3	Sounding CPT	CPT 1	30.000	-8.000	0.000	
9	CPT 4	Sounding CPT	CPT 1	0.000	-16.000	0.000	
10	CPT 5	Sounding CPT	CPT 1	16.000	-16.000	0.000	
11	CPT 6	Sounding CPT	CPT 1	45.000	-24.000	0.000	

Project control panel

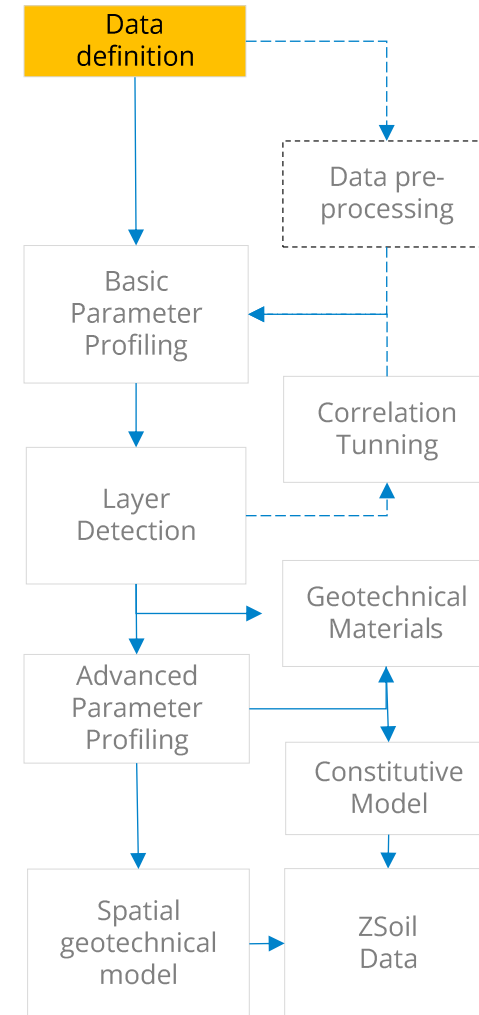
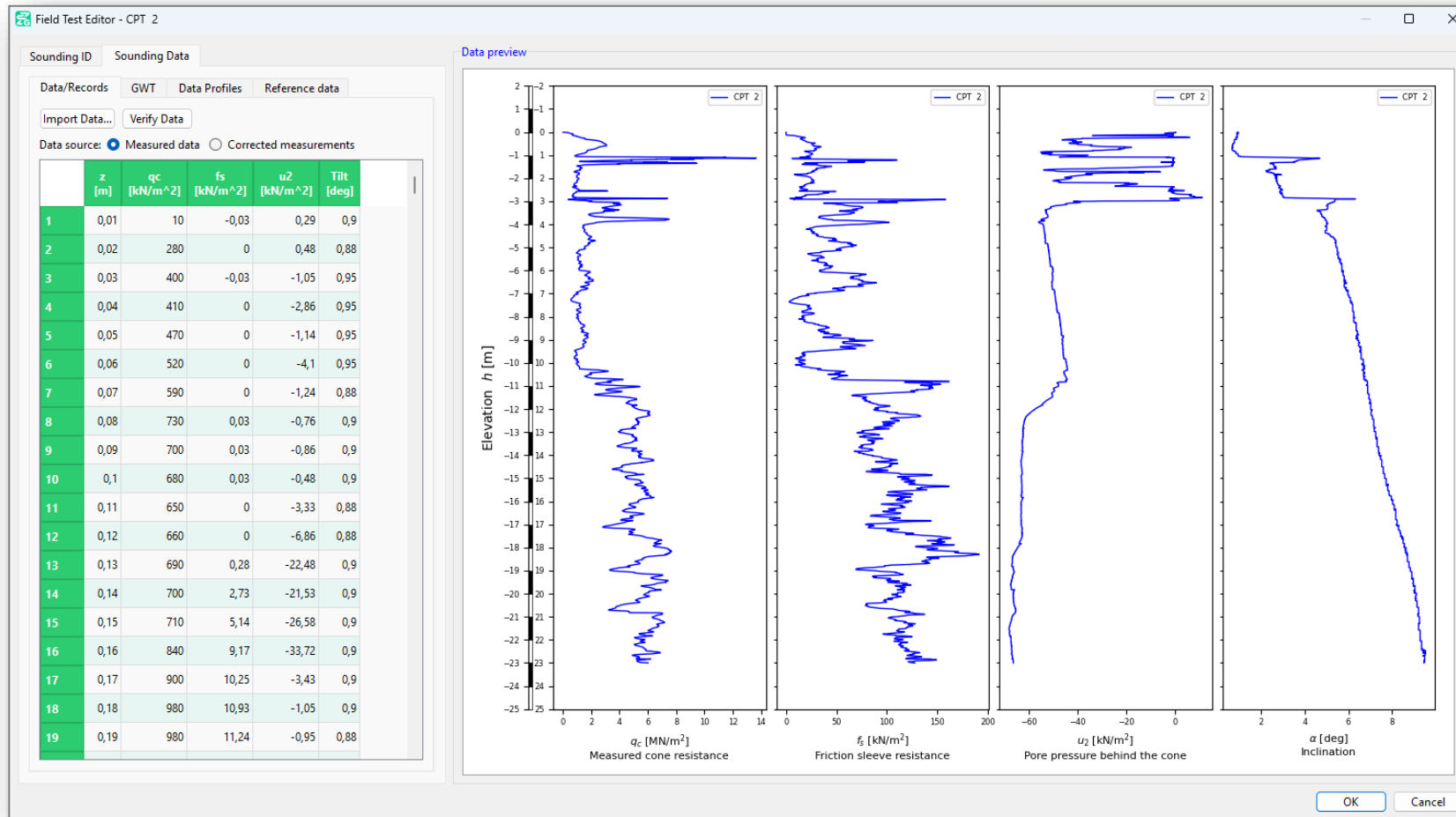
- FIELD TESTS
 - Devices / Probes
 - Boreholes / Soundings
 - Data Preprocessing
 - Basic Parameter Profiling
 - Layer Detection
 - Advanced Parameter Profiling
- MATERIALS
 - Geotechnical Materials
 - Material Grouping
 - Material Models

Spatial geotechnical model → ZSoil Data

zsoil.com

Data definition

Data definition or import



Data definition

Data import from ASCII

Import Wizard - Measured Data

File info

File name: 1
 Extension: CSV
 File type: Text table
 Number of rows: 2324
 Number of columns: 12
 File size: 110.18 KB
 Creation date: 2026-08-12 21:36:43
 Modification date: 2020-12-02 08:54:00

Import setup

Data delimiter: ; (semicolon) ☐ Other:
 Decimal separator: , (comma) ☐ Other:
 First data row: 24
 Discard last rows: 0
 Preview row count: 50 ☒ View all rows

Input data convention and units

☒ Measured data ☐ Corrected measurements

Input variable	Source column	Unit
z *	Column 1	cm
qc *	Column 2	MPa
fs *	Column 3	kPa
u2	Column 4	kPa
Tilt	Column 7	deg

* - mandatory variable

Validation

No validation issues detected.

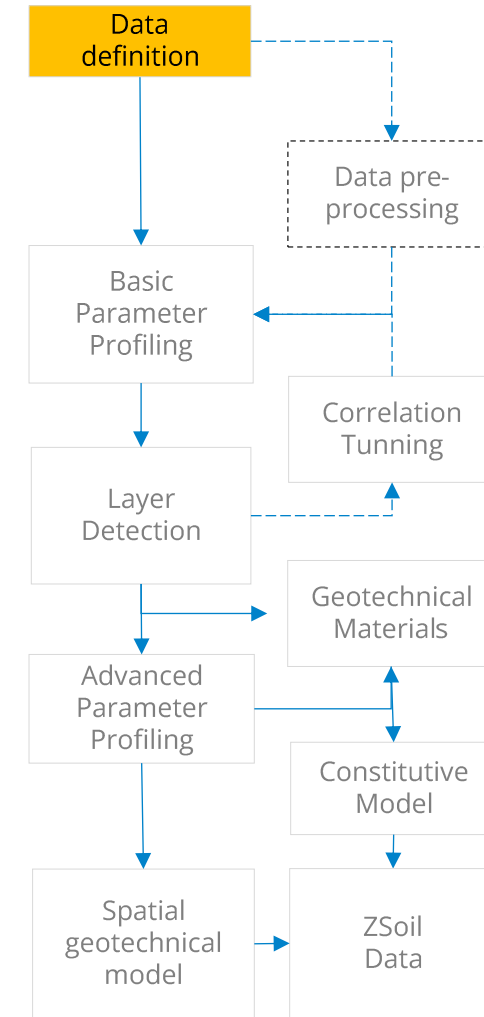
Original file preview

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9
23	Depth	Qc	Fs	U2	Rf	Temp	Tilt	Dist	S _i
24	1	0	0,15	0,95	0	0	1,09	0,02	0
25	2	0,34	2,76	4,86	0	0	1,18	0,04	1,
26	3	0,68	4,15	3,05	0	0	1,39	0,06	1,
27	4	0,77	4,83	0	0	0	1,49	0,09	2
28	5	0,86	4,27	1,24	0	0	1,59	0,12	2
29	6	0,95	7,56	-1,14	0	0	1,59	0,14	2
30	7	1,13	10,19	1,81	0	0	1,59	0,17	1,
31	8	1,25	10,69	2,67	0	0	1,59	0,2	1,
32	9	1,53	12,58	4,76	0	0	1,59	0,23	1,
33	10	1,63	14,15	5,33	0	0	1,59	0,26	1,
34	11	1,68	15,7	1,62	0	0	1,59	0,28	1,

Processed data preview

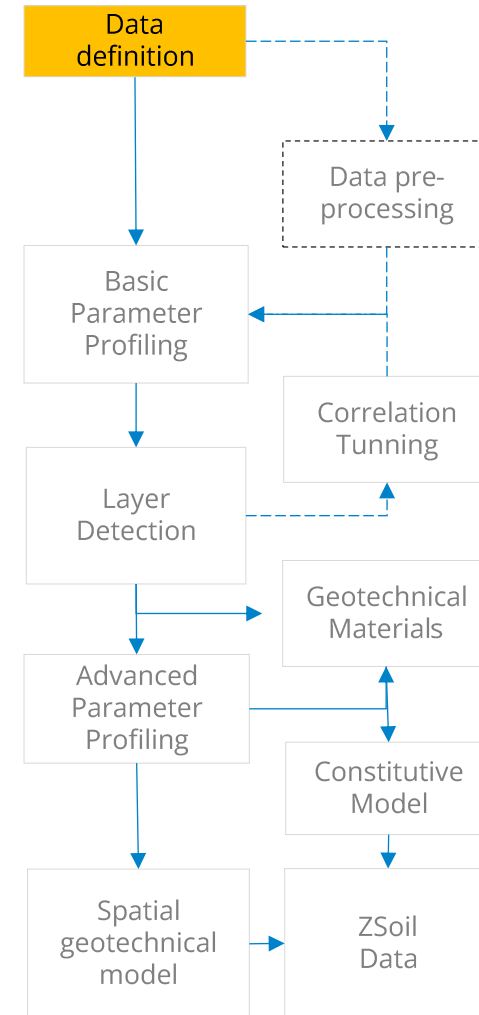
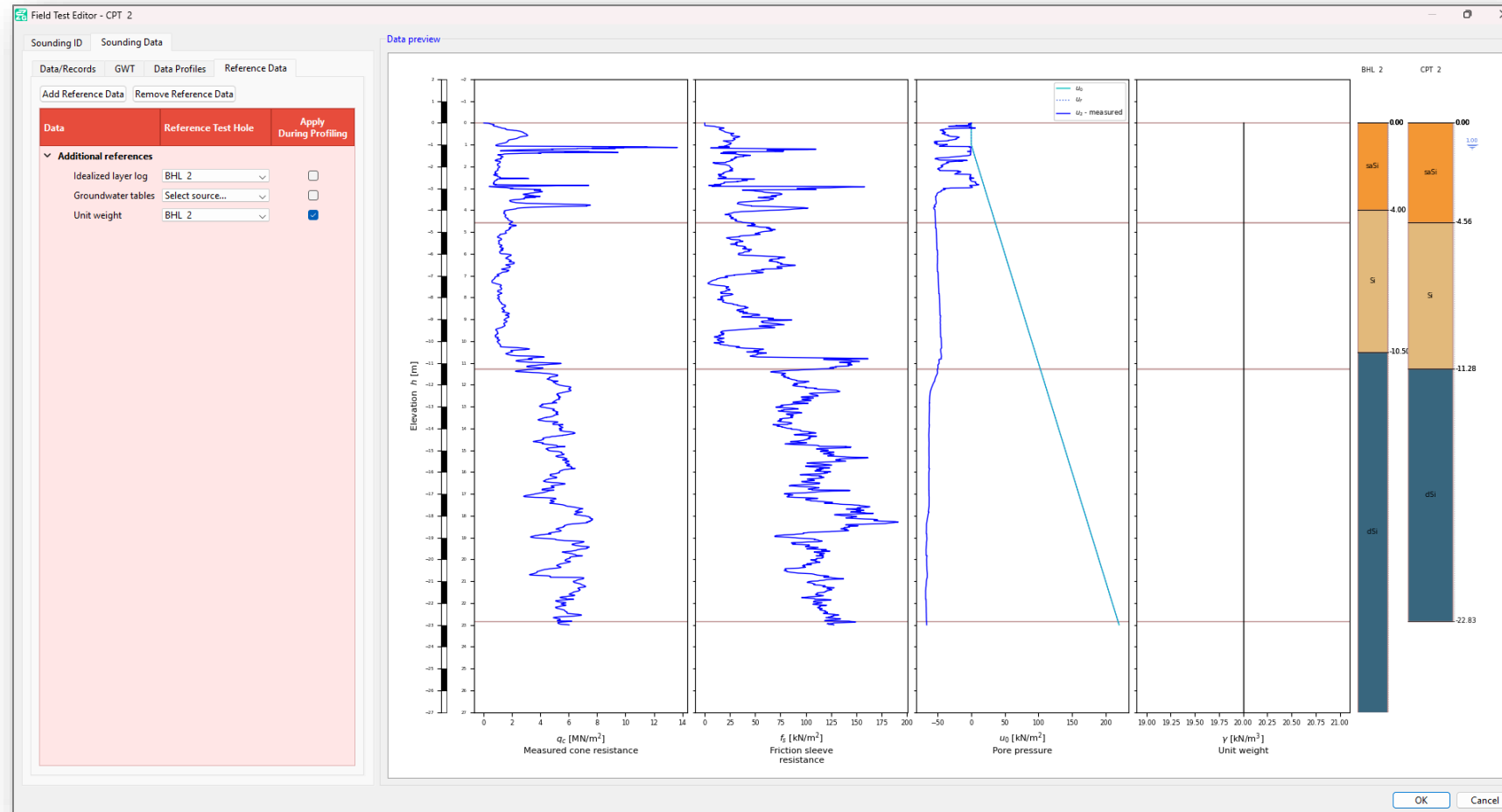
	z [cm]	qc [MPa]	fs [kPa]	u2 [kPa]	Tilt [deg]
0	1	0	0.15	0.95	1.09
1	2	0.34	2.76	4.86	1.18
2	3	0.68	4.15	3.05	1.39
3	4	0.77	4.83	0	1.49
4	5	0.86	4.27	1.24	1.59
5	6	0.95	7.56	-1.14	1.59
6	7	1.13	10.19	1.81	1.59
7	8	1.25	10.69	2.67	1.59
8	9	1.53	12.58	4.76	1.59
9	10	1.63	14.15	5.33	1.59
10	11	1.68	15.7	1.62	1.59
11	12	1.71	16.91	-20.29	1.59

OK Cancel



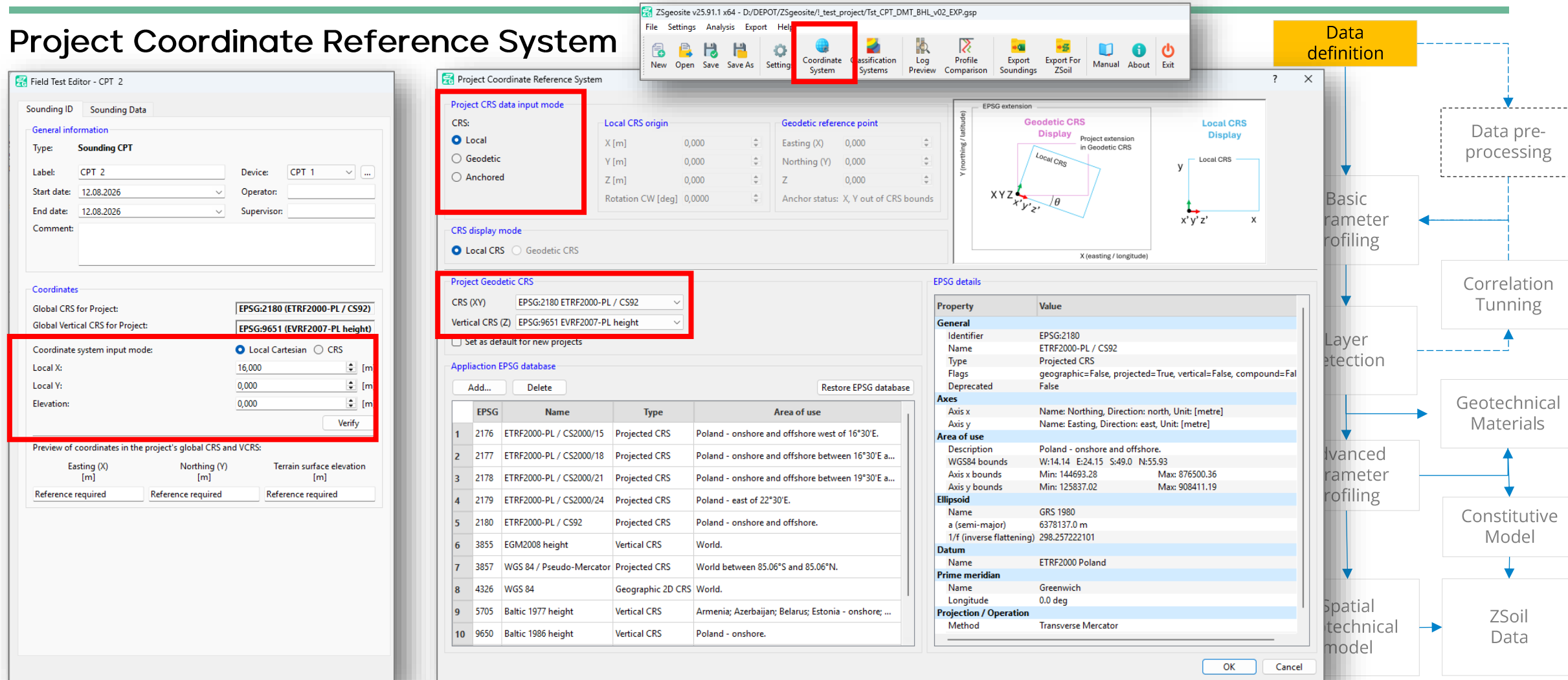
Data definition

Definition of reference test hole data



Data definition

Project Coordinate Reference System



Field Test Editor - CPT 2

Sounding ID: Sounding Data

General information

Type: **Sounding CPT**

Label: CPT 2 Device: CPT 1

Start date: 12.08.2026 Operator:

End date: 12.08.2026 Supervisor:

Comment:

Coordinates

Global CRS for Project: **EPSG:2180 (ETRF2000-PL / CS92)**

Global Vertical CRS for Project: **EPSG:9651 (EVRF2007-PL height)**

Coordinate system input mode: ☒ Local Cartesian ☐ CRS

Local X: 16,000 [m]

Local Y: 0,000 [m]

Elevation: 0,000 [m]

Verify

Preview of coordinates in the project's global CRS and VCRS:

Easting (X) [m]	Northing (Y) [m]	Terrain surface elevation [m]
Reference required	Reference required	Reference required

Project Coordinate Reference System

Project CRS data input mode

CRS: ☒ Local ☐ Geodetic ☐ Anchored

Local CRS origin

Parameter	Value
X [m]	0,000
Y [m]	0,000
Z [m]	0,000
Rotation CW [deg]	0,0000

Geodetic reference point

Parameter	Value
Easting (X)	0,000
Northing (Y)	0,000
Z	0,000

Anchor status: X, Y out of CRS bounds

CRS display mode

☒ Local CRS ☐ Geodetic CRS

Project Geodetic CRS

CRS (XY): **EPSG:2180 ETRF2000-PL / CS92**

Vertical CRS (Z): **EPSG:9651 EVRF2007-PL height**

☐ Set as default for new projects

Application EPSG database

Add... Delete Restore EPSG database

EPG	Name	Type	Area of use
1	2176 ETRF2000-PL / CS2000/15	Projected CRS	Poland - onshore and offshore west of 16°30'E.
2	2177 ETRF2000-PL / CS2000/18	Projected CRS	Poland - onshore and offshore between 16°30'E a...
3	2178 ETRF2000-PL / CS2000/21	Projected CRS	Poland - onshore and offshore between 19°30'E a...
4	2179 ETRF2000-PL / CS2000/24	Projected CRS	Poland - east of 22°30'E.
5	2180 ETRF2000-PL / CS92	Projected CRS	Poland - onshore and offshore.
6	3855 EGM2008 height	Vertical CRS	World.
7	3857 WGS 84 / Pseudo-Mercator	Projected CRS	World between 85.06°S and 85.06°N.
8	4326 WGS 84	Geographic 2D CRS	World.
9	5705 Baltic 1977 height	Vertical CRS	Armenia; Azerbaijan; Belarus; Estonia - onshore; ...
10	9650 Baltic 1986 height	Vertical CRS	Poland - onshore.

EPSG details

Property	Value
General	
Identifier	EPSG:2180
Name	ETRF2000-PL / CS92
Type	Projected CRS
Flags	geographic=False, projected=True, vertical=False, compound=False
Deprecated	False
Axes	
Axis x	Name: Northing, Direction: north, Unit: [metre]
Axis y	Name: Easting, Direction: east, Unit: [metre]
Area of use	
Description	Poland - onshore and offshore.
WGS84 bounds	W:14.14 E:24.15 S:49.0 N:55.93
Axis x bounds	Min: 144693.28 Max: 876500.36
Axis y bounds	Min: 125837.02 Max: 908411.19
Ellipsoid	
Name	GRS 1980
a (semi-major)	6378137.0 m
1/f (inverse flattening)	298.257222101
Datum	
Name	ETRF2000 Poland
Prime meridian	
Name	Greenwich
Longitude	0.0 deg
Projection / Operation	
Method	Transverse Mercator

OK Cancel

Data definition

Data pre-processing

Basic parameter profiling

Layer detection

Correlation Tuning

Geotechnical Materials

Advanced parameter profiling

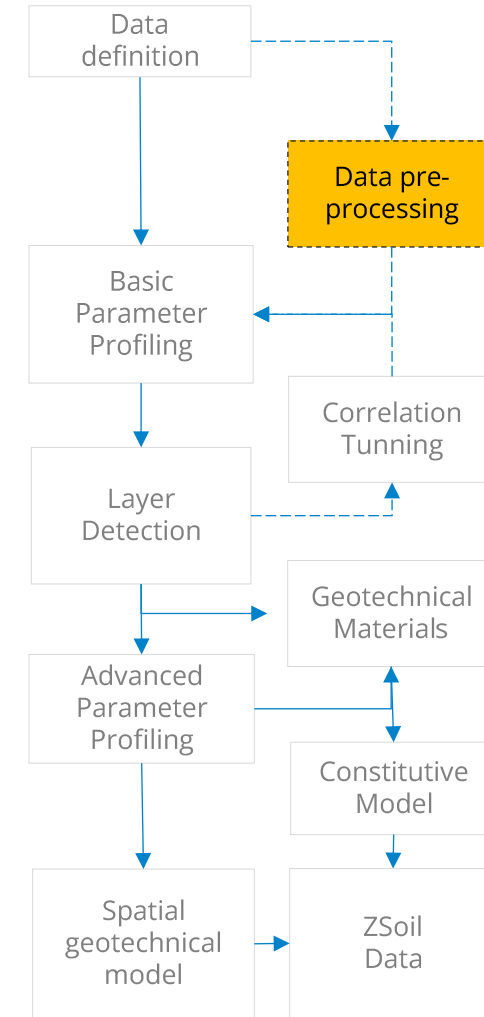
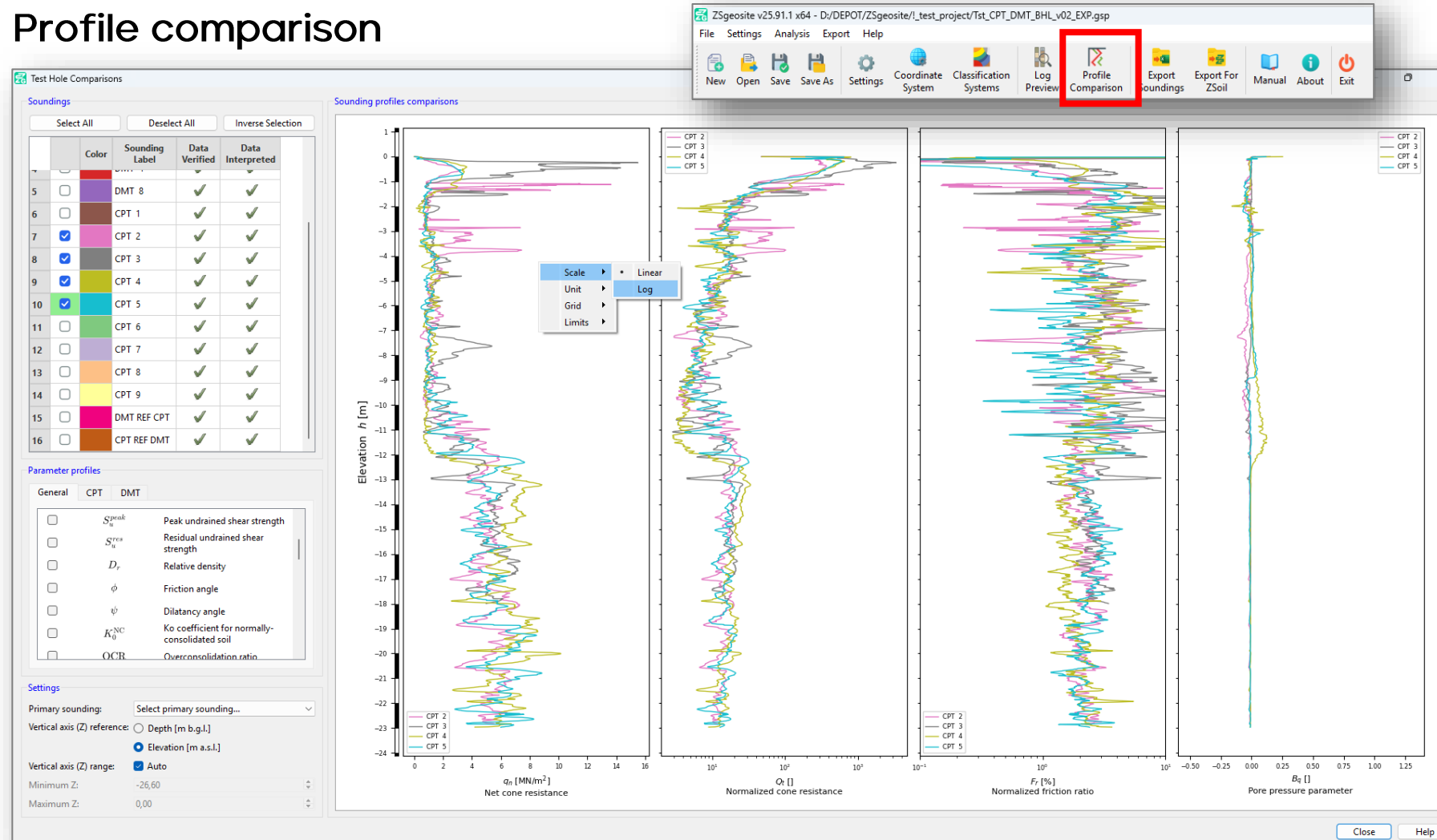
Constitutive Model

Spatial technical model

ZSoil Data

Data visualisation

Profile comparison



Data pre-processing

Data pre-processing

- Data pre-processing – generalized scheme for any type of sounding
 - (2) Data filtering on (1) raw data (correcting, shortening, etc.)
 - (3) Device specific corrections on filtered data
 - (4) Data smoothing on corrected data

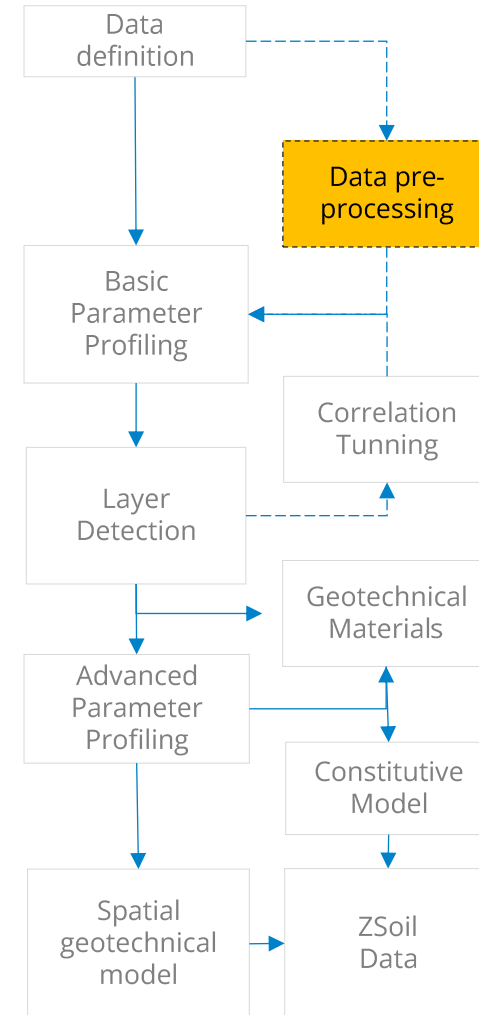
Workspace
3D View
2D View
+

Data preprocessing
Test hole type: All
Data Filtering...
Data Correcting...
Data Smoothing...

	Sounding Label	Metadata Defined	Measurements Imported	Reference Inputs	Data Filtered	Data Corrected	Data Smoothed
1	DMT 2	✓	✓	✓	✓	✓	?
2	DMT 4	✓	✓	✓	✓	✓	?
3	DMT 8	✓	✓	✓	✓	✓	?
4	CPT 1	✓	✓	✓	✓	✓	?
5	CPT 2	✓	✓	✓	✓	✓	?
6	CPT 3	✓	✓	✓	✓	✓	?
7	CPT 4	✓	✓	✓	✓	✓	?
8	CPT 5	✓	✓	✓	✓	✓	?
9	CPT 6	✓	✓	✓	✓	✓	?

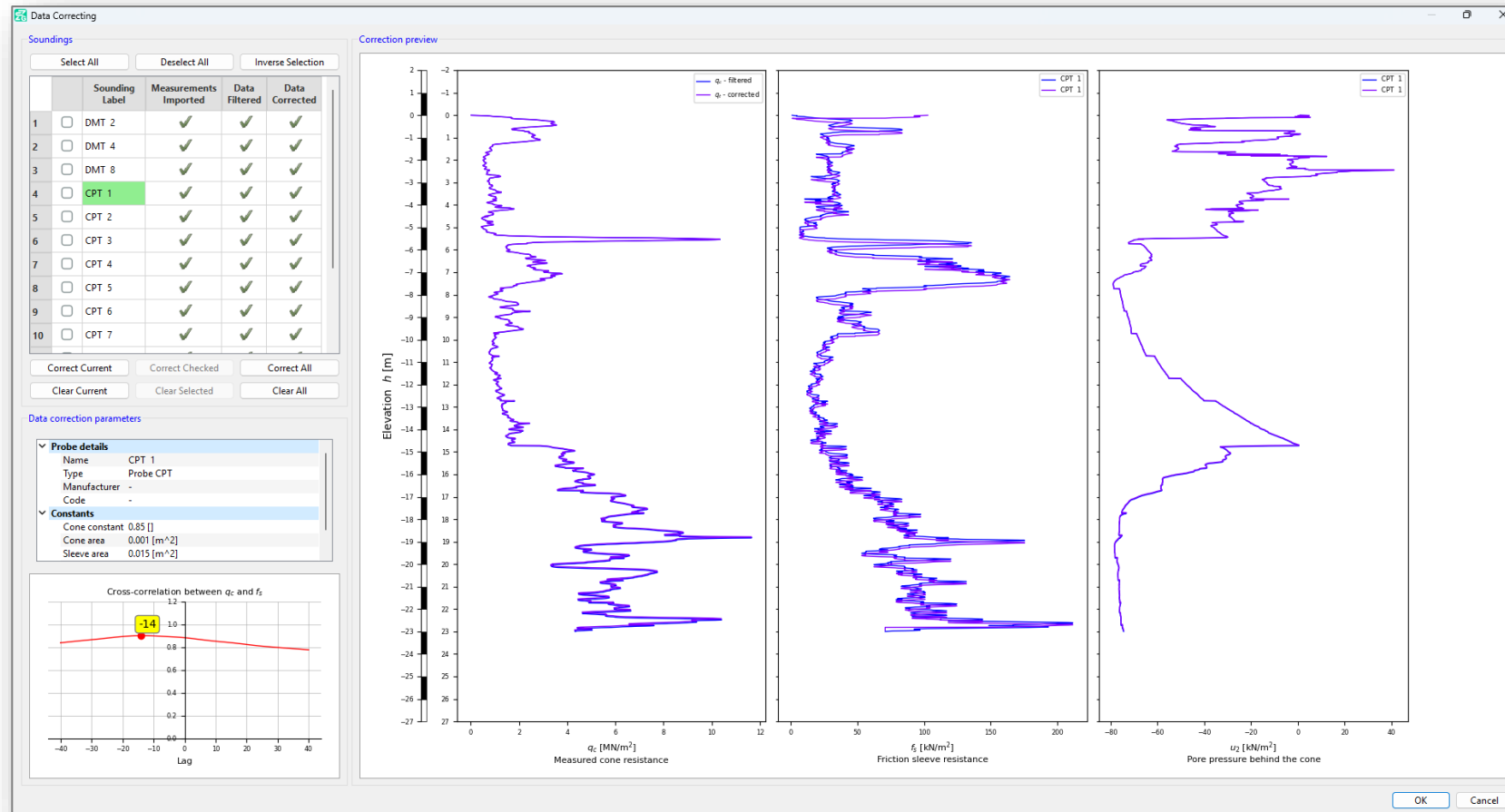
Project control panel

- FIELD TESTS
 - Devices / Probes
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 - Layer Detection
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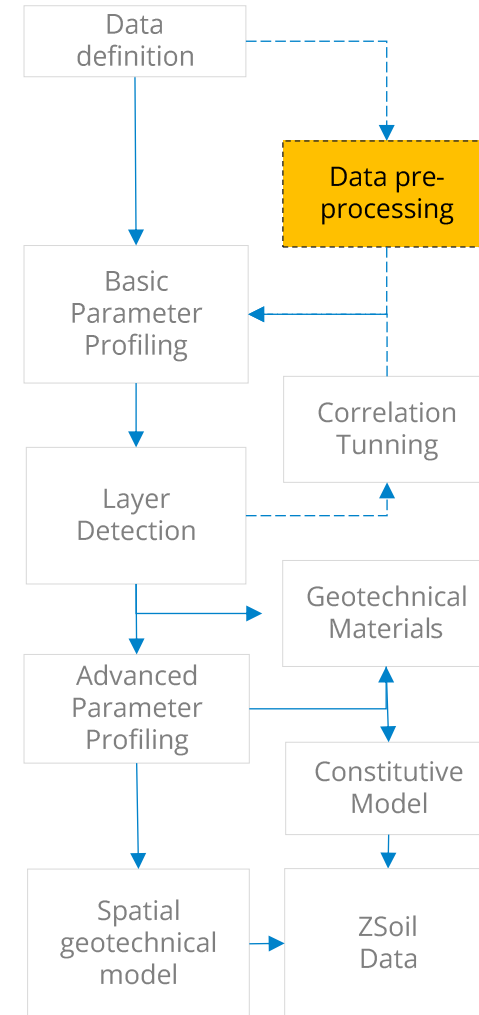


Data pre-processing

Device-specific corrections on filtered data



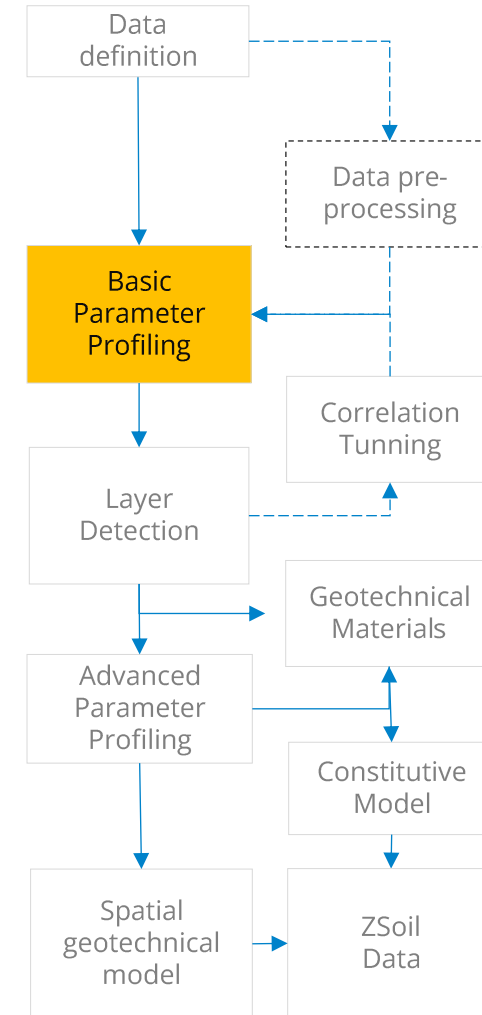
e.g. CPTU: $q_t = q_c + (1 - a) \cdot u_2$ or lag translation



Basic Parameter Profiling

Determination of SBT and parameter profiles

- Data normalisation
 - $Q_{tn} = \frac{q_t - \sigma_{v0}}{\sigma'_{v0}}$ (CPT)
 - $K_D = (p_0 - u_0) / \sigma'_{v0}$
- Soil Behaviour Type
- Profiling of geotechnical parameters (e. g. S_u , D_r , ϕ')



Basic Parameter Profiling

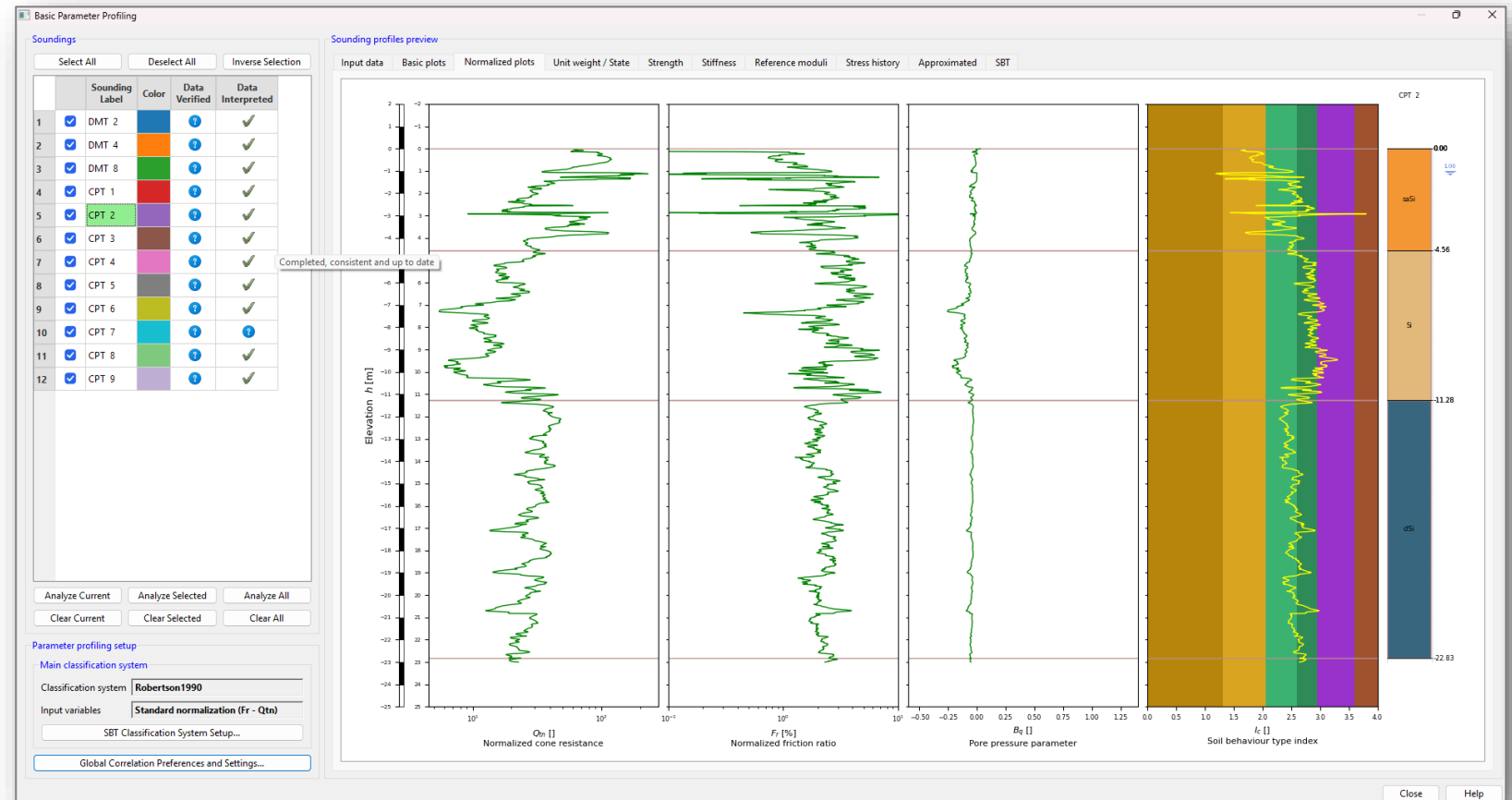
Determination of SBT and parameter profiles

➤ Data normalisation

- $Q_{tn} = \frac{q_t - \sigma_{v0}}{\sigma'_{v0}}$ (CPT)
- $K_D = (p_0 - u_0) / \sigma'_{v0}$

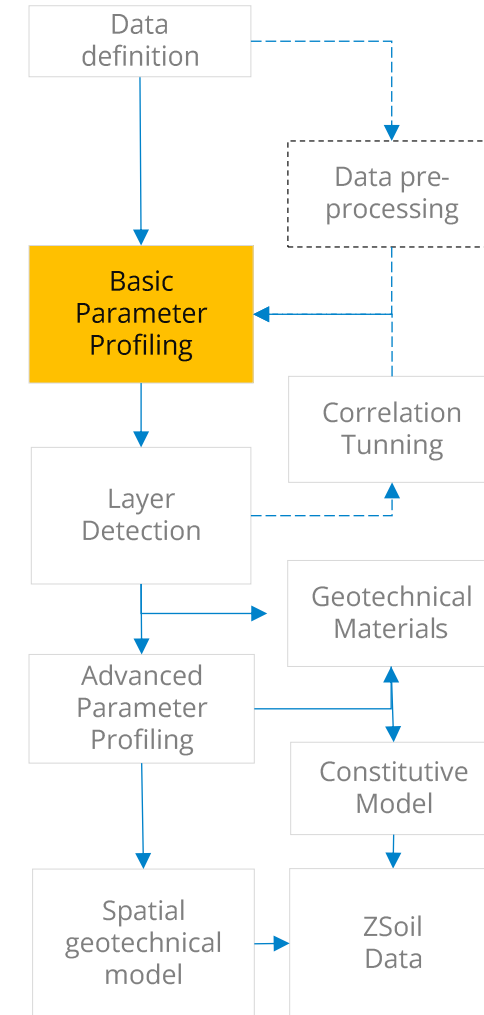
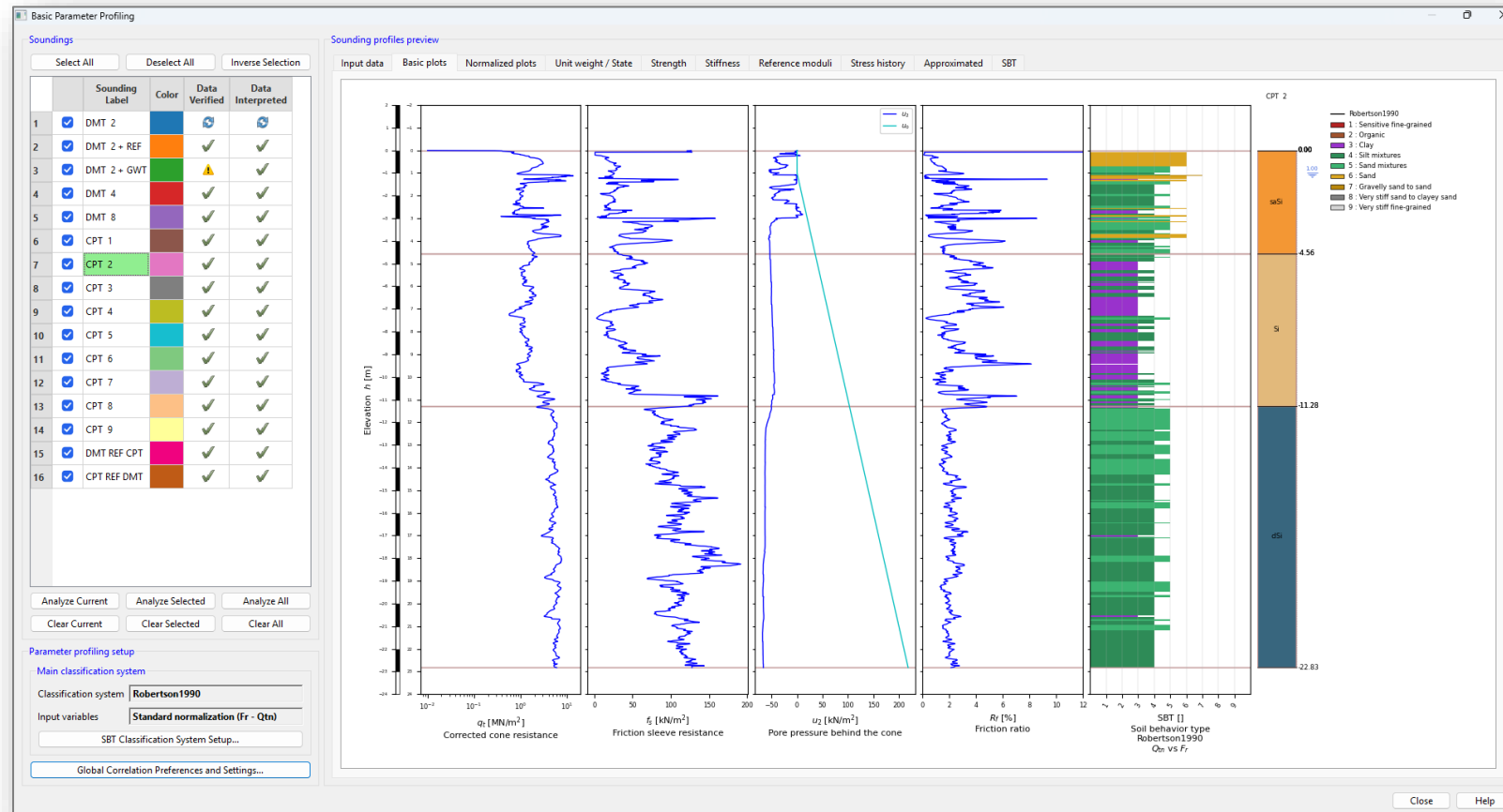
➤ Soil Behaviour Type

➤ Profiling of geotechnical parameters (e.g. S_u , D_r , ϕ')



Basic Parameter Profiling

Determination of SBT and parameter profiles



Basic Parameter Profiling

Determination of SBT and parameter profiles

Data definition

Basic Parameter Profiling

Soundings

Select All Deselect All Inverse Selection

	Soundings	Color	Data Verified	Data Interpreted
1	DMT 2			
2	DMT 2 + REF			
3	DMT 2 + GWT			
4	DMT 4			
5	DMT 8			
6	CPT 1			
7	CPT 2			
8	CPT 3			
9	CPT 4			
10	CPT 5			
11	CPT 6			
12	CPT 7			
13	CPT 8			
14	CPT 9			
15	DMT REF CPT			
16	CPT REF DMT			

Analyze Current Analyze Selected Analyze All

Clear Current Clear Selected Clear All

Parameter profiling setup

Main classification system

Classification system: Robertson1990

Input variables: Standard normalization (Fr - Qtn)

SBT Classification System Setup...

Global Correlation Preferences and Settings...

Soil Behaviour Type Classification Manager

CPT DMT

Main classification system

Classification system: Robertson1990

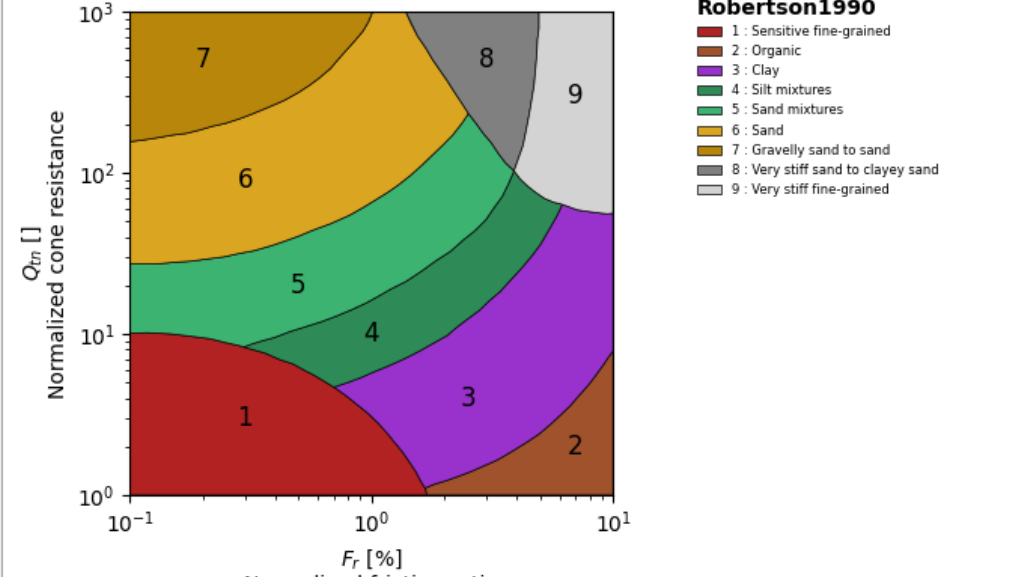
Input variables: Standard normalization (Fr - Qtn)

Available classification systems

Active	Classification system	Input variables
☐	Robertson1986	Non-normalized (Rf - qt)
☒	Robertson1990	Standard normalization (Fr - Qtn)
☐	Schneider2008	Standard normalization (U2 - Qtn)
☐	Schneider2008Exten...	Standard normalization (U2 - Qtn)
☒	Robertson2009	Standard normalization (Fr - Qtn)
☐	Robertson2016	Standard normalization (Fr - Qtn)
☐	Robertson2016Ext...	Standard normalization (Fr - Qtn)
☐	Robertson2016Mixed	Standard normalization (Fr - Qtn)

☐ Apply this setting to all new projects

Classification diagram



Robertson1990

Normalized cone resistance Q_{tn} []

Normalized friction ratio F_r [%]

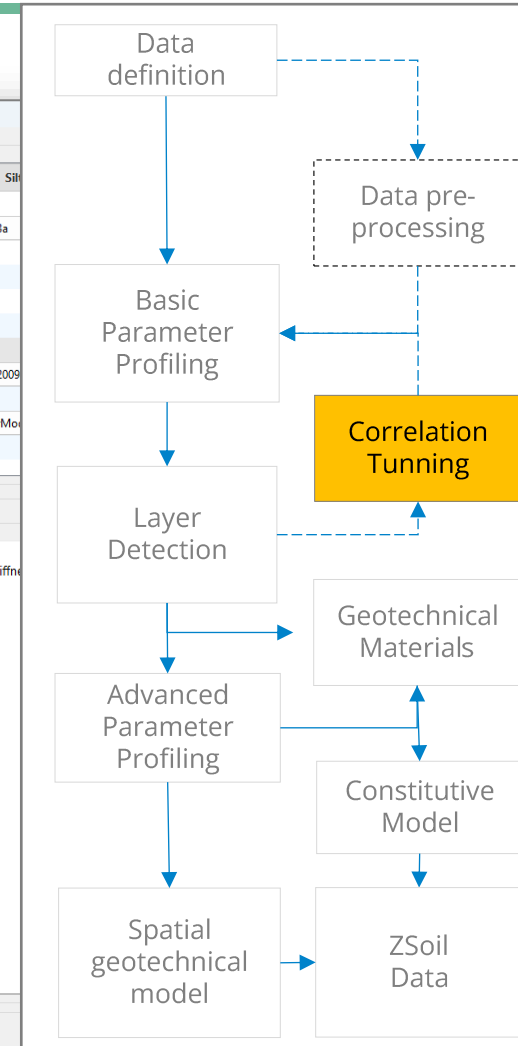
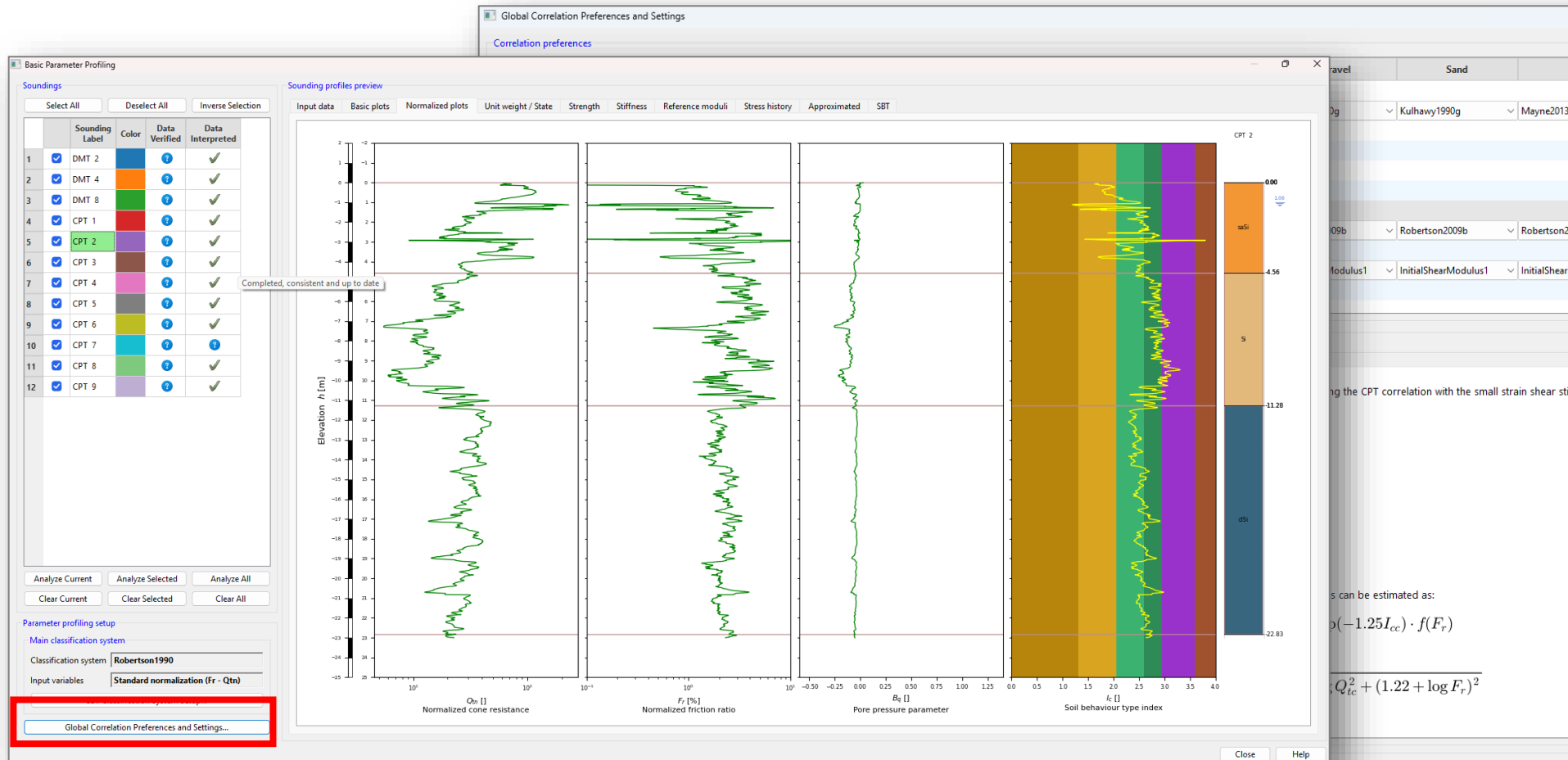
Robertson1990

- 1 : Sensitive fine-grained
- 2 : Organic
- 3 : Clay
- 4 : Silt mixtures
- 5 : Sand mixtures
- 6 : Sand
- 7 : Gravelly sand to sand
- 8 : Very stiff sand to clayey sand
- 9 : Very stiff fine-grained

OK Cancel

Basic Parameter Profiling

Setting global correlation preferences and settings



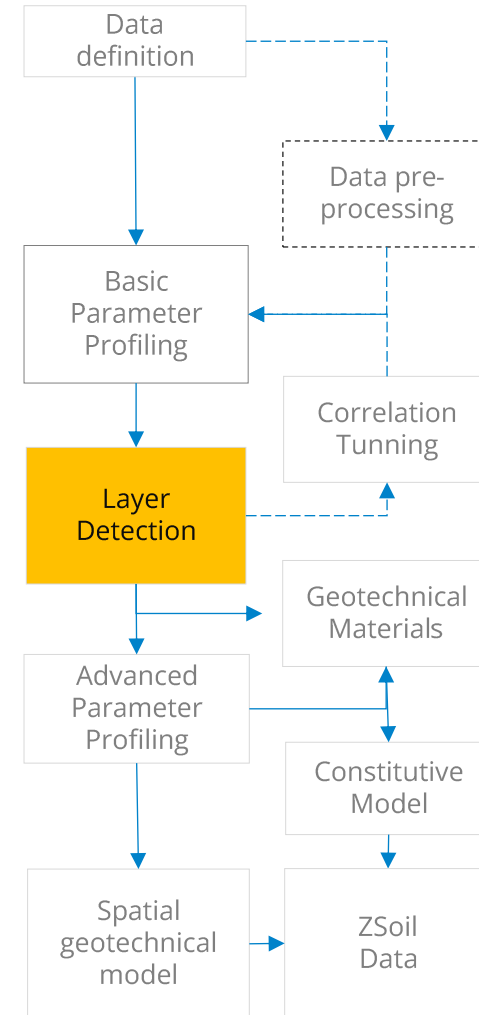
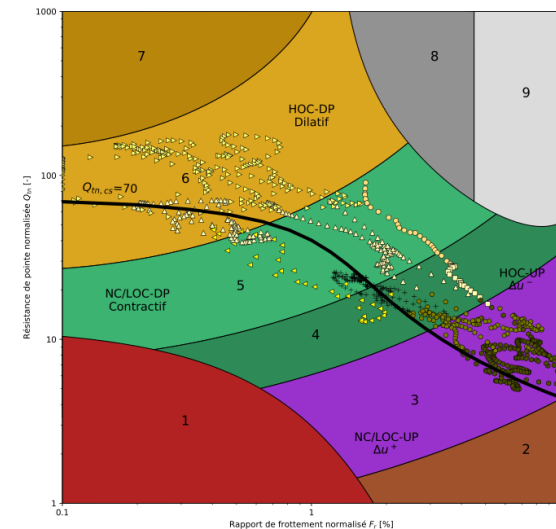
Layer Detection

Interactive selection

- Based on the contrasts in different parameter profiles
 - SBT (can also be inherited from a reference test hole)
 - Normalized variables (e.g. Q_{tn} , F_r , B_q)
 - Basic geotechnical parameters obtained from Basic Parameter Profiling (e.g. S_u , D_r , ϕ')

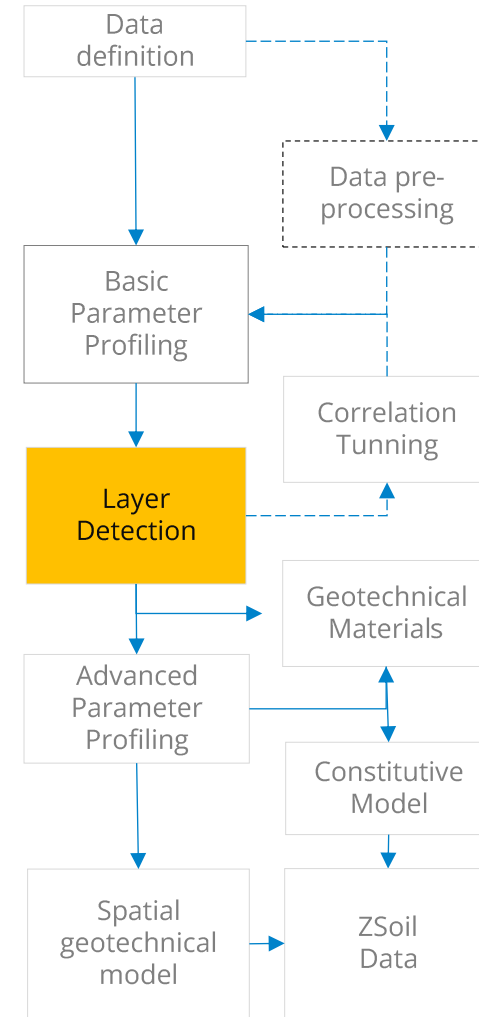
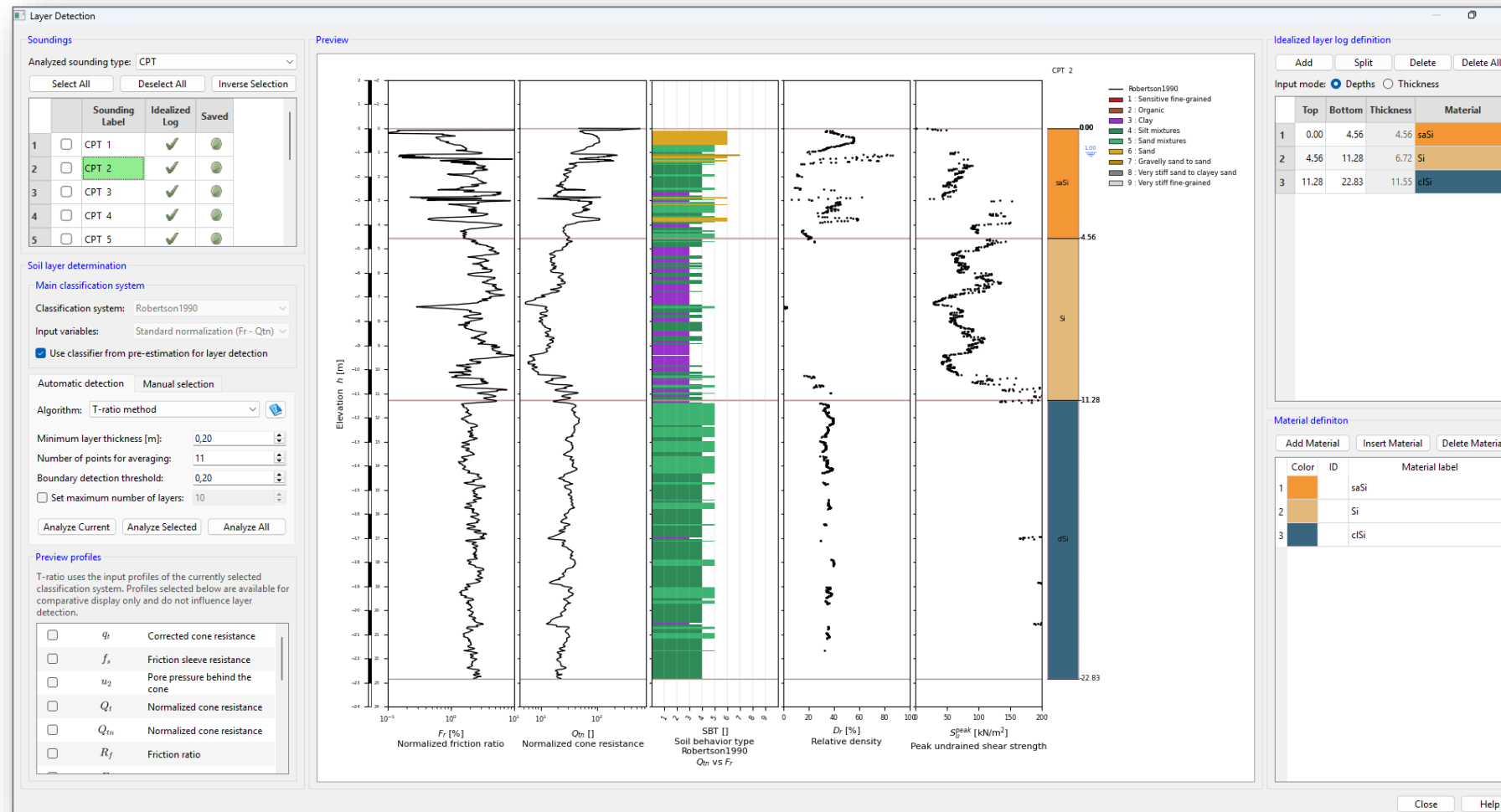
Automatic selection

- Based on the contrasts in different profiles
- Different algorithms :
 - Based on Rolling Averaging (eg. T-ratio method)
 - and more ...



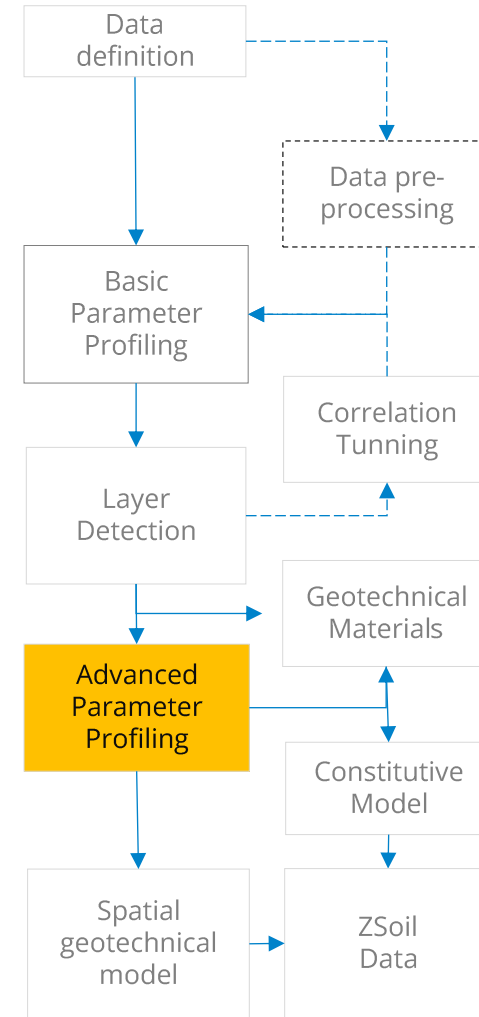
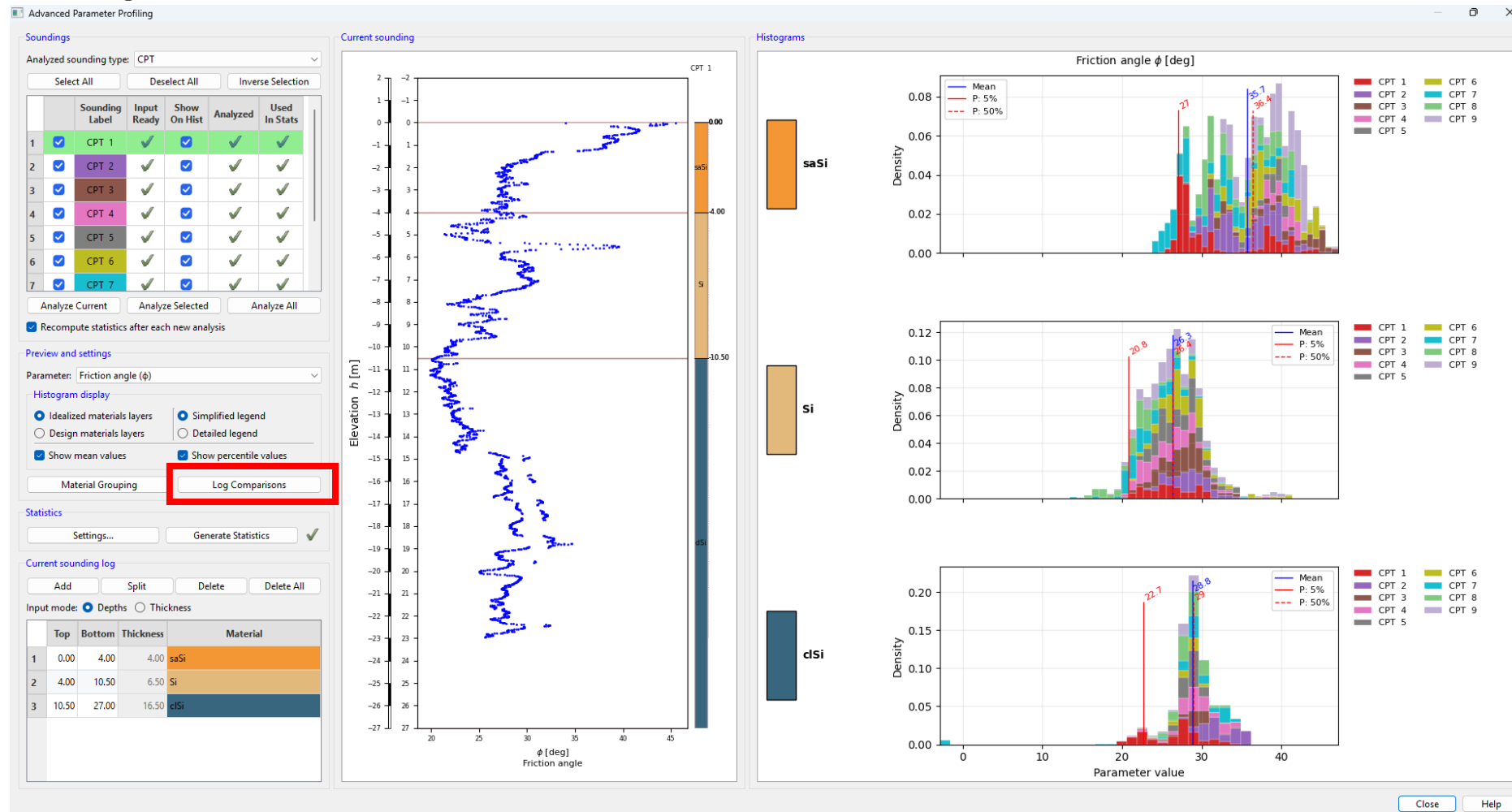
Layer Detection

Automatic or/and manual



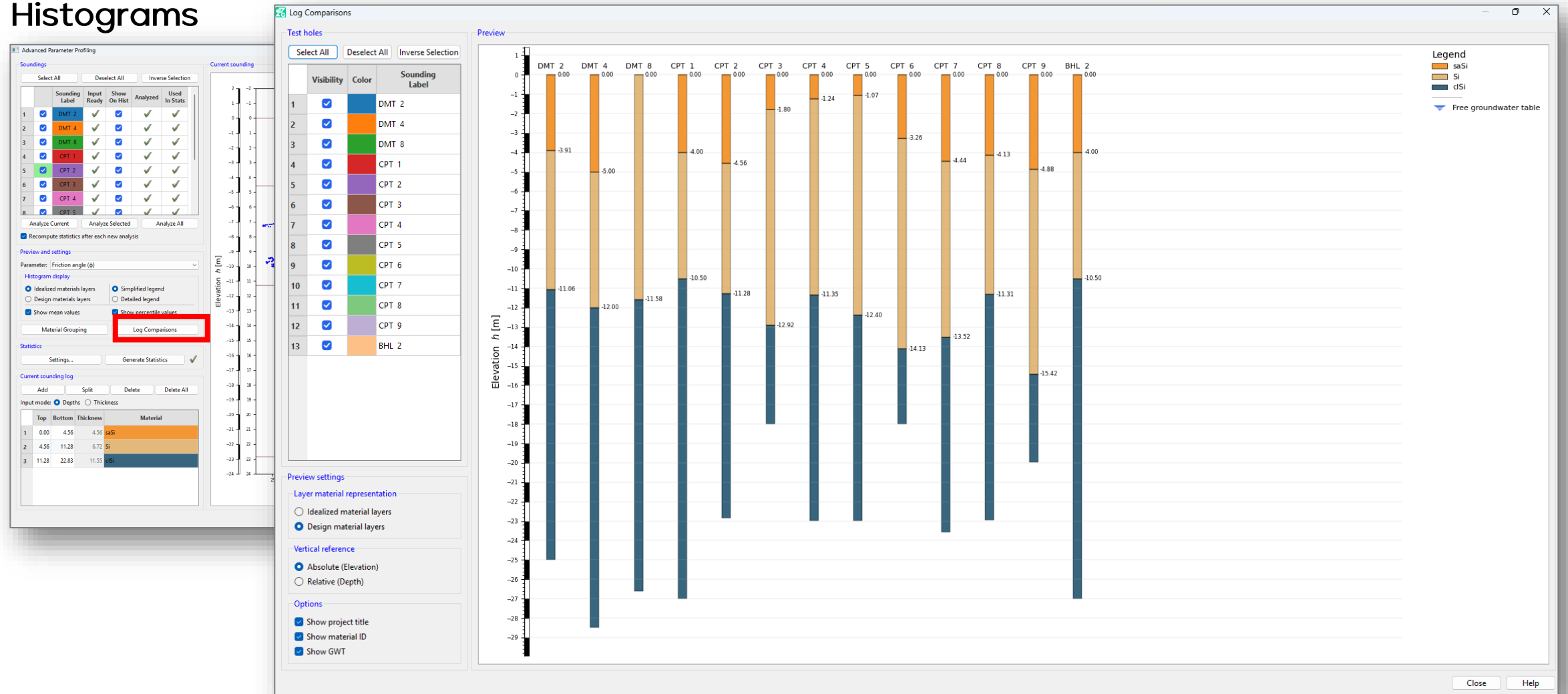
Advanced Parameter Profiling

Histograms



Advanced Parameter Profiling

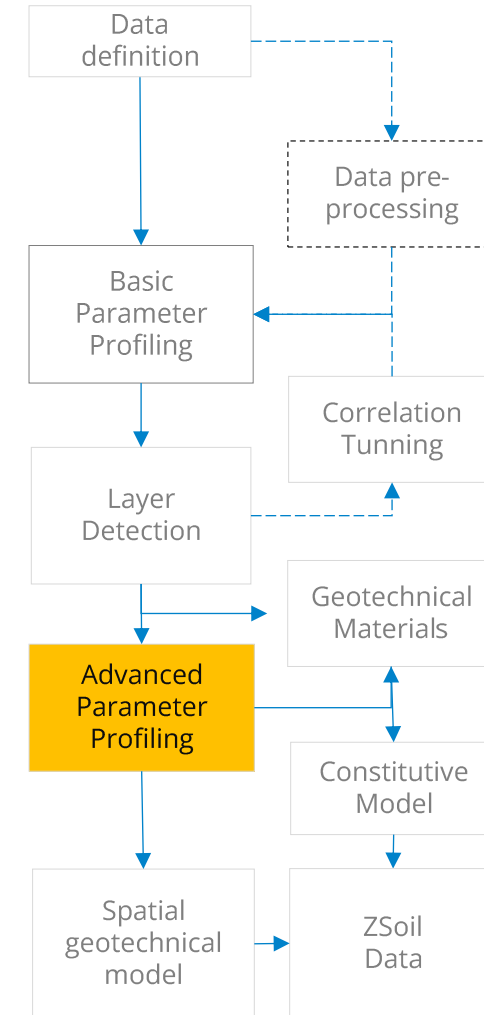
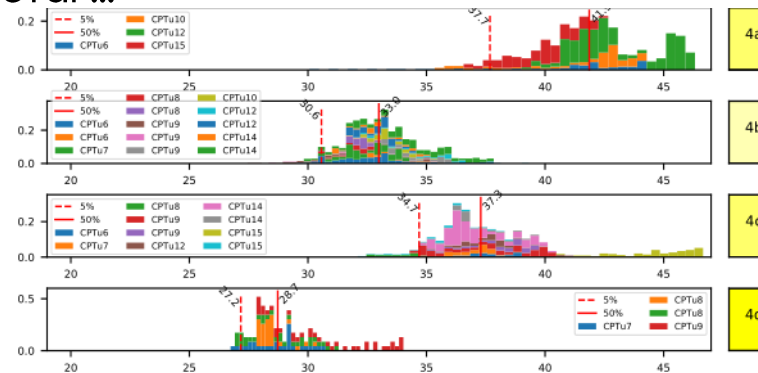
Histograms



Advanced Parameter Profiling

Correcting iteration

- Updating parameter profiles after explicit definition of the SBT
 - empirical correlations are often developed for specific SBT
 - effective stress profile which is based on new SBT and estimated profile of γ may affect normalization
 - manual corrections of separation levels are sometimes required
 - simplifying too detailed stratigraphy is sometimes necessary due to practical reasons
 - diagnostic of the preliminary statistics that are computed for normalized records and identified parameters within each representative layer, is very useful ...

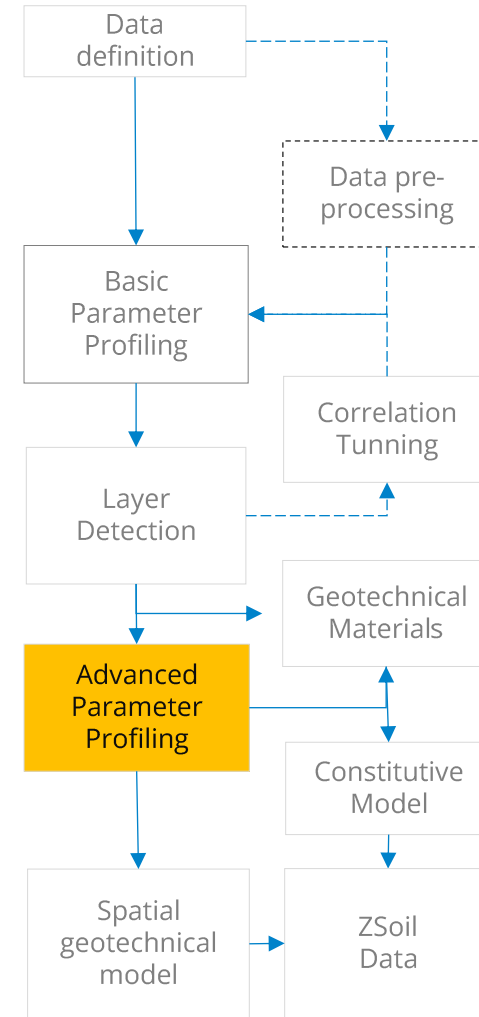
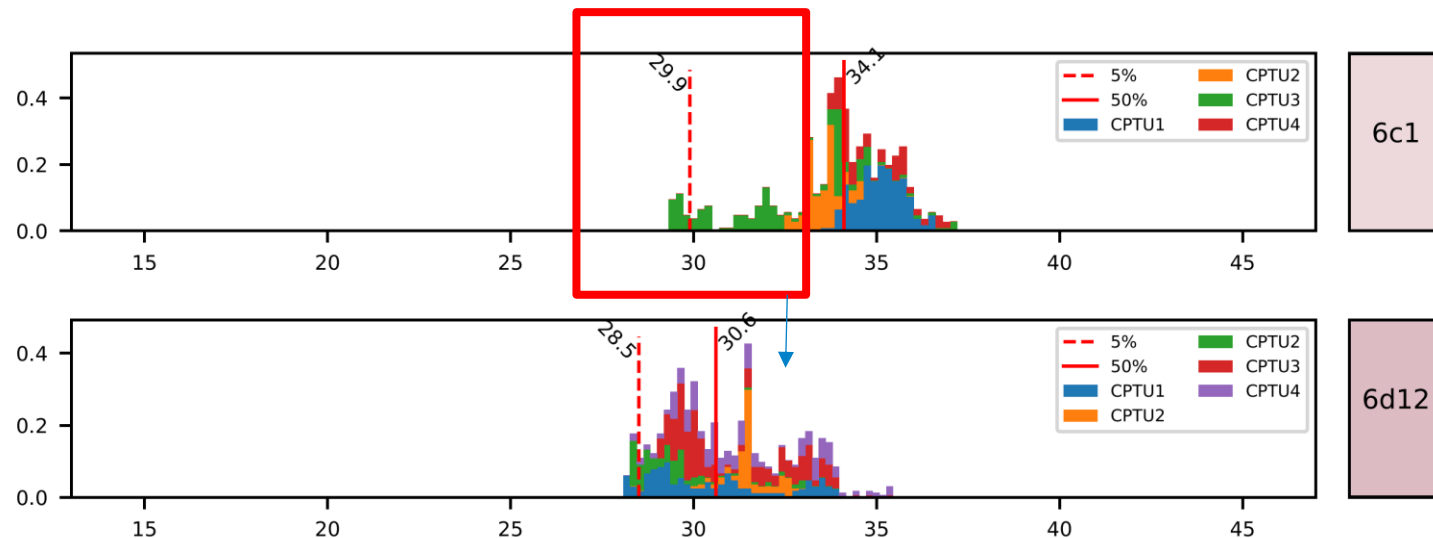


Advanced Parameter Profiling

Diagnostic of representative layers

- Inspection based on parameter distribution

A part of layer which was initially interpreted as 6c1 can be moved to 6d12 (modification of the level)



Advanced Parameter Profiling

Creating geotechnical model – grouping to geotechnical units

Before grouping

All detected layers
(lithological units)

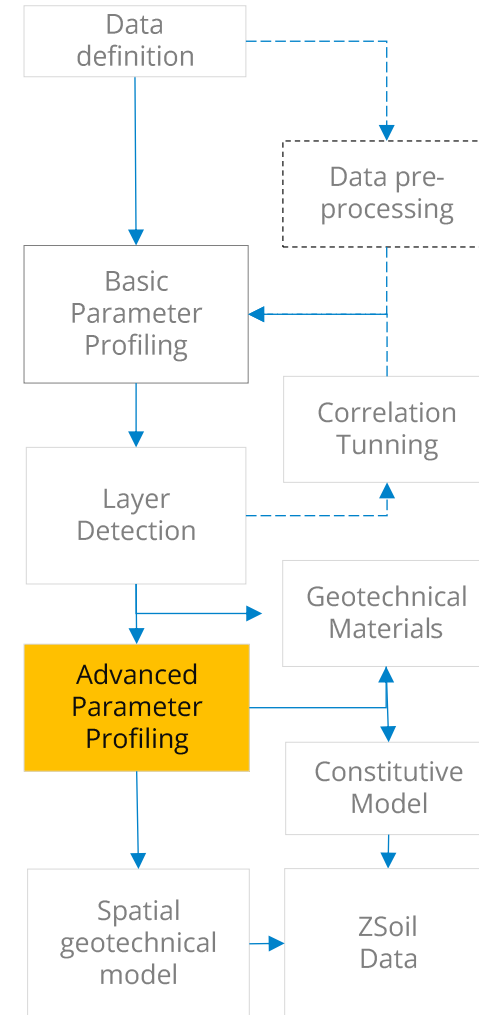
Geotechnical design layer / Geological sublayer	Material ID	Colour
Sand Dr=0.50	A1	Yellow
Silty Sand Dr=0.50	A2	Orange
Clayed Sand Dr=0.50	A3	Pink
Gravel Dr=0.70	B1	Red
Clay Ic=0.75	C1	Dark Blue
Silty Clay Ic=0.75	C2	Green
Clay Ic=1.00	D1	Brown
Peat Ic=0.40	E1	Dark Grey

After grouping

Geotechnical design layers

Geotechnical design layer / Geological sublayer	Material ID	Colour
▼ Sand Dr=0.50 Silty Sand Dr=0.50 Clayed Sand Dr=0.50	A1	Yellow
Gravel Dr=0.70	B1	Red
▼ Clay Ic=0.75 Silty Clay Ic=0.75	C1	Dark Blue
Clay Ic=1.00	D1	Brown
Peat Ic=0.40	E1	Dark Grey

e.g. included in A1
layer
as sublayers



Material Models

Association of geotechnical materials with ZSoil material models

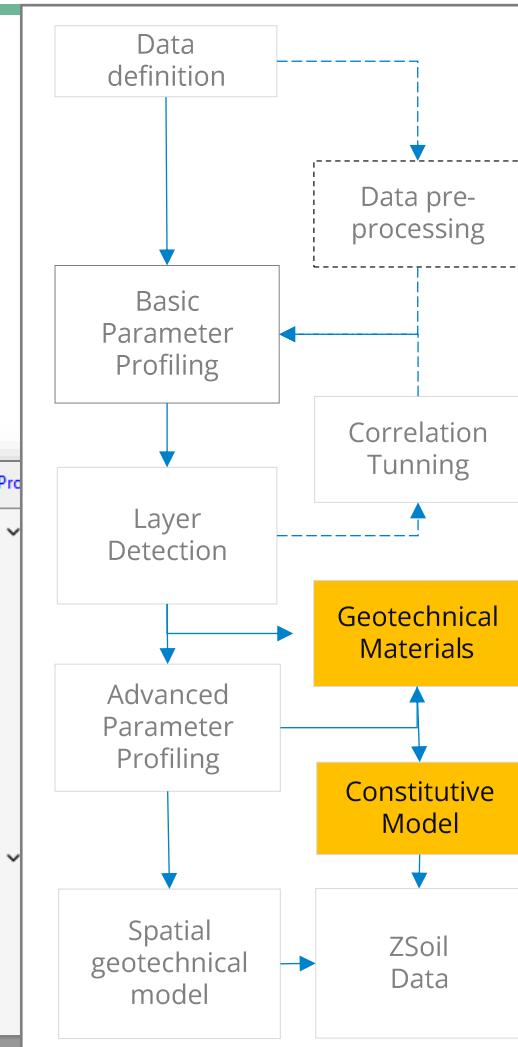
- Material-specific processing of interpreted test results (statistics & final selection of the design parameter values)
- Association of geotechnical materials with ZSoil model
- Exporting edited materials to ZSoil format

Workspace 3D View 2D View +

Material models

+ Add Copy Delete

ZSoil Material Models					Associated Geotechnical Material				
	#	Material Model Label	Model Formulation	Parameters	Material	Color	ID	Class	Type
1	1	Sandy Silt	Mohr-Coulomb	Edit...	Sandy Silt		saSi	Soil	Silt
2	2	Silt	HS-small strain	Edit...	Silt		Si	Soil	Silt
3	3	Clayed Silt	HS-small strain	Edit...	Clayed Silt		clSi	Soil	Silt



Material Models

Material-specific processing of interpreted test results
(statistics & final selection of the design parameter values)

Material Model – Clayed Silt

Parameter selection

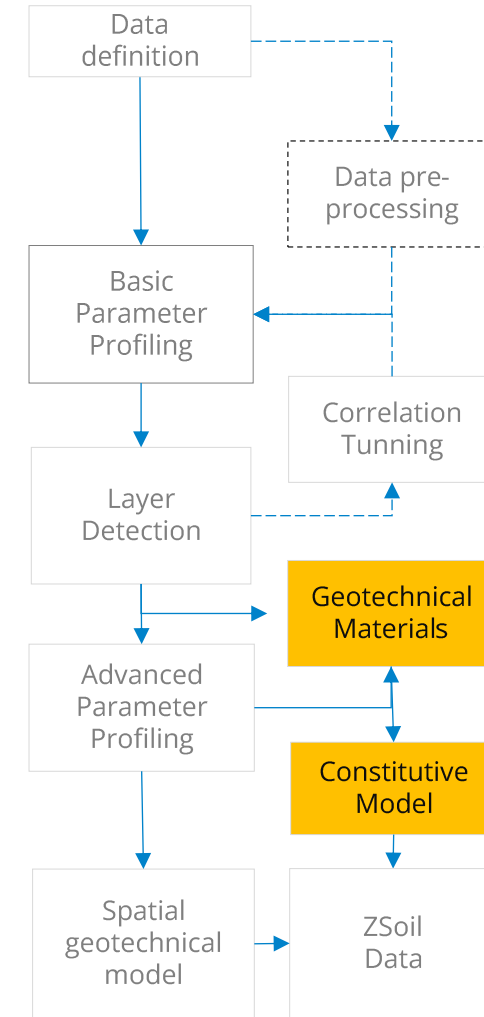
Revert All Changes Reset to Defaults Copy checked values to User's selection or drag-and-drop to assign userselected values

Name	Actions	Symbol	Unit	User's selection	CPT	DMT
Unit weights						
Unit weight		γ	[kN/m ³]	0	☐ 21.05	☐ 19.34
Unit weight of fluid		γ_F	[kN/m ³]	10	☐ 10	☐ 10
Initial void ratio		e_0	[]	0	☐ 0.526	
Unit weight of dry soil		γ_D	[kN/m ³]	0	☐ 17.59	
Elastic						
Reference un-/reloading stiff. modulus		E_{ur}^{ref}	[kN/m ²]	80000	☐ 116509	☐ 43091
Un-/reloading Poisson's ratio		ν_{ur}	[]	0.2	☐ 0.2	☐ 0.2
Stiffness exponent (sig3+c*cot(phi))		m	[]	0.5	☐ 0.688	☐ 0.574
Reference stress		σ_{ref}	[kN/m ²]	100	☐ 100	☐ 100
Stiffness stress dependency						
Small strain stiffness						
Reference initial stiffness modulus		E_0^{ref}	[kN/m ²]	240000	☐ 231686	☐ 103859
Small strain threshold		$\gamma_{0.7}$	[]	0.0002		
Nonlinear						
Failure friction angle		ϕ_f	[deg]	30	☐ 28.79	☐ 32.06
Dilatancy angle		ψ	[deg]	0	☐ 0.641	☐ 2.0
Failure cohesion		c_f	[kN/m ²]	20	☐ 15.98	☐ 6.1
Reference secant stiffness modulus at 50% of failure		E_{90}^{ref}	[kN/m ²]	25000	☐ 38836	☐ 14

☐ Show advanced view

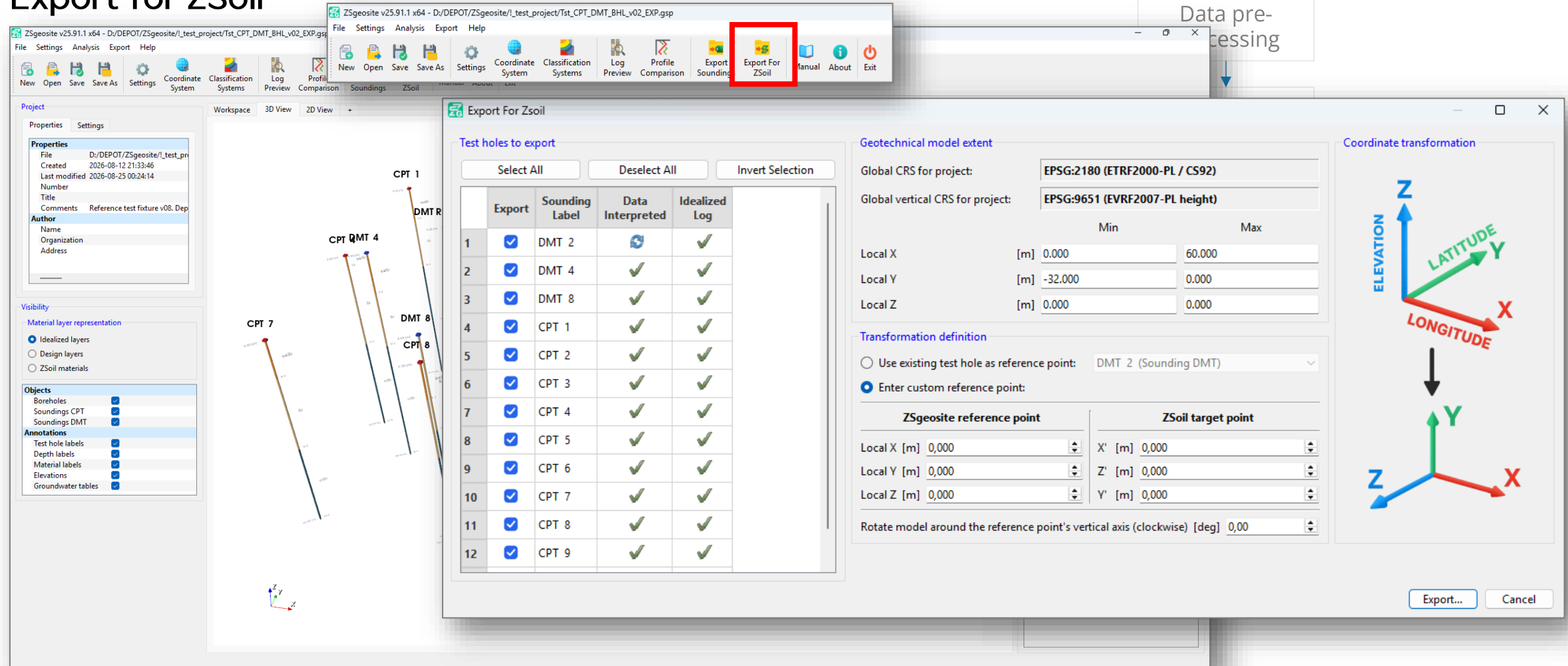
OK Cancel

source: DMT
st dev: 0.424
min: 31.46
max: 33.91
q5: 31.61
q50: 32



Geotechnical Model

Export for ZSoil



Test holes to export

	Export	Sounding Label	Data Interpreted	Idealized Log
1	☒	DMT 2		☒
2	☒	DMT 4	☒	☒
3	☒	DMT 8	☒	☒
4	☒	CPT 1	☒	☒
5	☒	CPT 2	☒	☒
6	☒	CPT 3	☒	☒
7	☒	CPT 4	☒	☒
8	☒	CPT 5	☒	☒
9	☒	CPT 6	☒	☒
10	☒	CPT 7	☒	☒
11	☒	CPT 8	☒	☒
12	☒	CPT 9	☒	☒

Geotechnical model extent

Global CRS for project: **EPSG:2180 (ETRF2000-PL / CS92)**

Global vertical CRS for project: **EPSG:9651 (EVRF2007-PL height)**

	Min	Max
Local X [m]	0.000	60.000
Local Y [m]	-32.000	0.000
Local Z [m]	0.000	0.000

Transformation definition

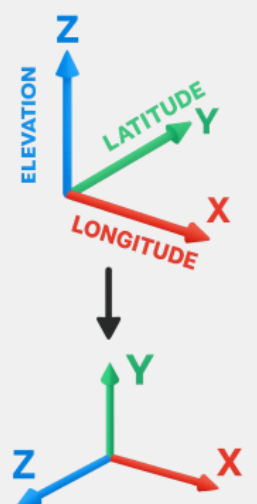
☐ Use existing test hole as reference point: DMT 2 (Sounding DMT)

☒ Enter custom reference point:

ZSgeosite reference point		ZSoil target point	
Local X [m]	0,000	X' [m]	0,000
Local Y [m]	0,000	Z' [m]	0,000
Local Z [m]	0,000	Y' [m]	0,000

Rotate model around the reference point's vertical axis (clockwise) [deg] 0,00

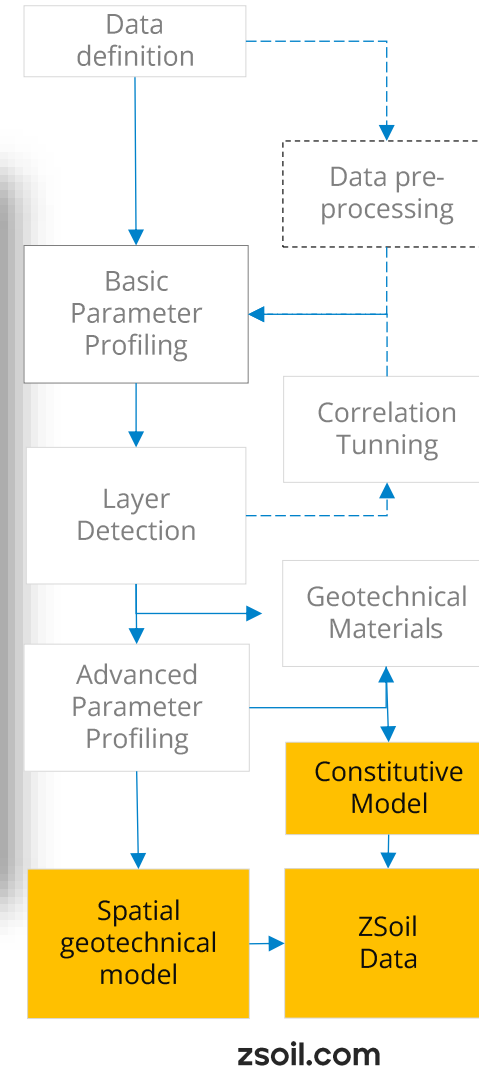
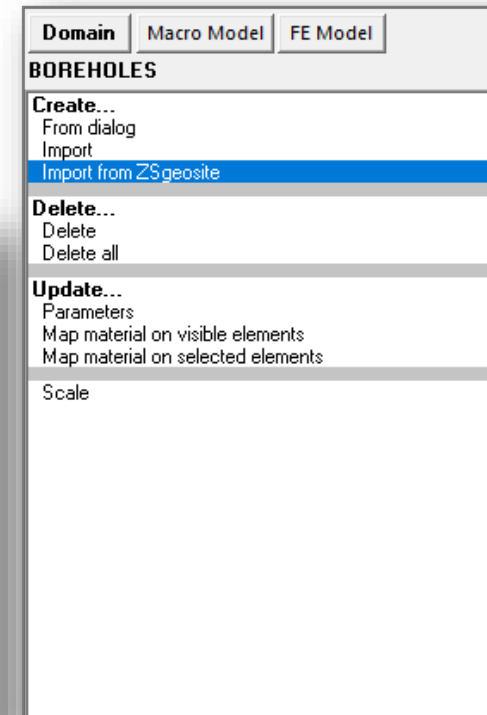
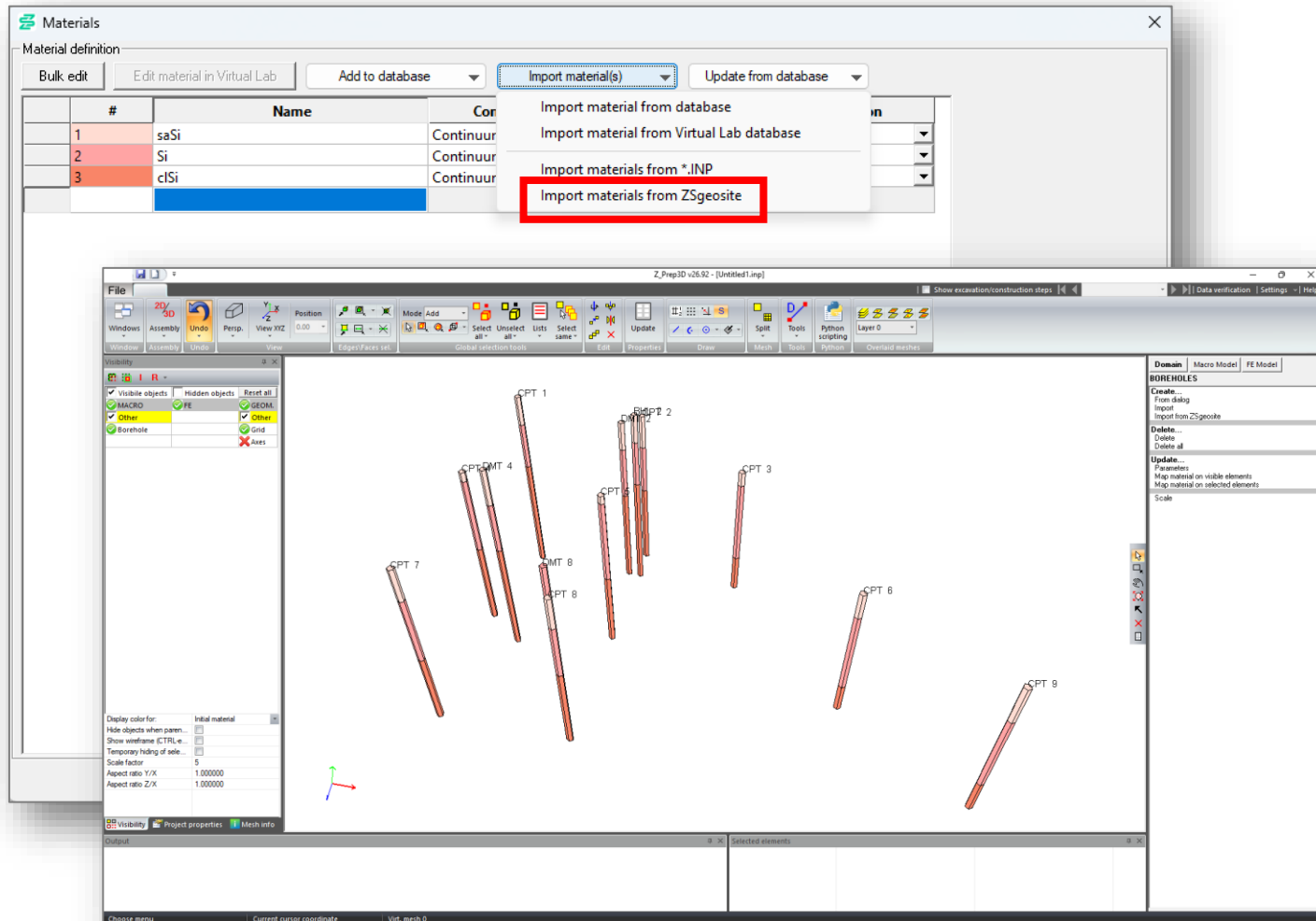
Coordinate transformation



Export... **Cancel**

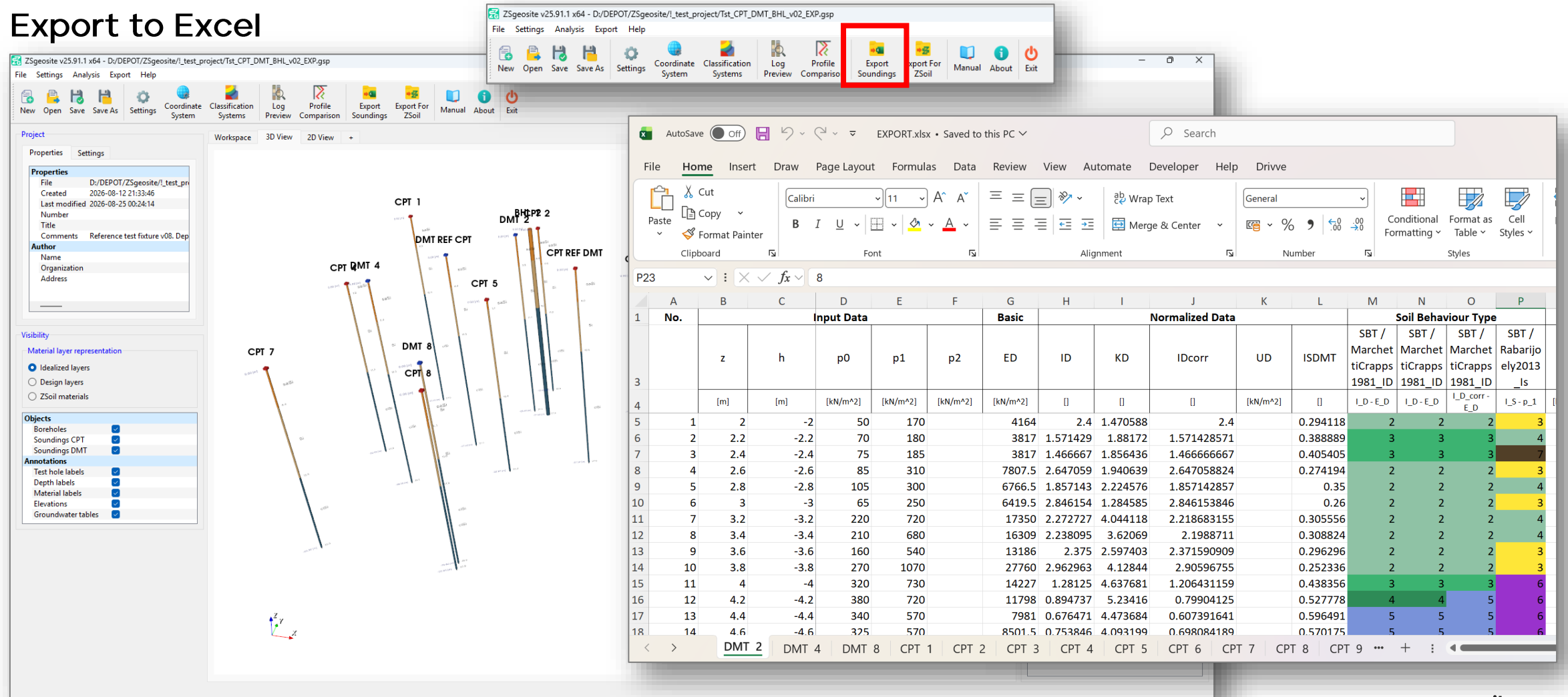
Geotechnical Model

Import to ZSoil



Geotechnical Model

Export to Excel



Properties

File D:/DEPOT/ZSgeosite/l_test_project/Tst_CPT_DMT_BHL_v02_EXP.gsp
Created 2026-08-12 21:33:46
Last modified 2026-08-25 00:24:14
Number
Title
Comments Reference test fixture v08. Dep
Author
Name
Organization
Address

Visibility

Material layer representation

☒ Idealized layers
☐ Design layers
☐ ZSoil materials

Objects

Boreholes ☒
Soundings CPT ☒
Soundings DMT ☒

Annotations

Test hole labels ☒
Depth labels ☒
Material labels ☒
Elevations ☒
Groundwater tables ☒

EXPORT.xlsx • Saved to this PC

File Home Insert Draw Page Layout Formulas Data Review View Automate Developer Help Drive

Paste Copy Format Painter Clipboard Font Alignment Number Styles

Calibri 11 A A

B I U

Wrap Text

General

Conditional Formatting Format as Table Cell Styles

P23

No.	z	h	p0	p1	p2	ED	ID	KD	IDcorr	UD	ISDMT	Soil Behaviour Type			
	[m]	[m]	[kN/m²]	[kN/m²]	[kN/m²]	[kN/m²]	[]	[]	[]	[kN/m²]	[]	SBT / MarchettiCrapps 1981_ID	SBT / MarchettiCrapps 1981_ID	SBT / MarchettiCrapps 1981_ID	SBT / Rabarijo ely2013_Is
												I_D - E_D	I_D - E_D	I_D_corr - E_D	I_S - p_1
1	2	-2	50	170		4164	2.4	1.470588	2.4	0.294118		2	2	2	3
2	2.2	-2.2	70	180		3817	1.571429	1.88172	1.571428571	0.388889		3	3	3	4
3	2.4	-2.4	75	185		3817	1.466667	1.856436	1.466666667	0.405405		3	3	3	7
4	2.6	-2.6	85	310		7807.5	2.647059	1.940639	2.647058824	0.274194		2	2	2	3
5	2.8	-2.8	105	300		6766.5	1.857143	2.224576	1.857142857	0.35		2	2	2	4
6	3	-3	65	250		6419.5	2.846154	1.284585	2.846153846	0.26		2	2	2	3
7	3.2	-3.2	220	720		17350	2.272727	4.044118	2.218683155	0.305556		2	2	2	4
8	3.4	-3.4	210	680		16309	2.238095	3.62069	2.1988711	0.308824		2	2	2	4
9	3.6	-3.6	160	540		13186	2.375	2.597403	2.371590909	0.296296		2	2	2	3
10	3.8	-3.8	270	1070		27760	2.962963	4.12844	2.90596755	0.252336		2	2	2	3
11	4	-4	320	730		14227	1.28125	4.637681	1.206431159	0.438356		3	3	3	6
12	4.2	-4.2	380	720		11798	0.894737	5.23416	0.79904125	0.527778		4	4	5	6
13	4.4	-4.4	340	570		7981	0.676471	4.473684	0.607391641	0.596491		5	5	5	6
14	4.6	-4.6	325	570		8501.5	0.753846	4.093199	0.698084189	0.570175		5	5	5	6

DMT 2 DMT 4 DMT 8 CPT 1 CPT 2 CPT 3 CPT 4 CPT 5 CPT 6 CPT 7 CPT 8 CPT 9 ... +

Summary

Objectives of the new application

- Integrated workflow from site investigation to FE modelling
- Flexible import, visualisation and preprocessing in-situ data
- Automated and interactive soil profiling, combining correlations, SBT classification and layer detection
- Advanced parameter profiling including statistical treatment
- Parameter profiling for ZSoil constitutive models
- Generation of geotechnical model to be imported into ZSoil



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